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# PARASITOLOGY

#### EDITED BY

GEORGE H. F. NUTTALL, F.R.S. Quick Professor of Biology in the University of Cambridge

ASSISTED BY

EDWARD HINDLE, Ph.D.

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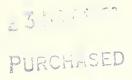
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### THE GENERA AND SPECIES OF MALLOPHAGA.

### BY LAUNCELOT HARRISON, B.Sc.

University of Sydney, and Emmanuel College, Cambridge.

(From the Quick Laboratory, University of Cambridge.)

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Τ.

#### GENERAL INTRODUCTION.

Since Professor Kellogg has published a list of Mallophaga, in Wytsman's Genera Insectorum, so recently as 1908, my reasons for preparing the present publication require an explanation. This explanation involves some criticism of Kellogg's list, but my main reasons are concerned rather with the plan of this list than with the few errors and omissions that I indicate.

In the first place, Kellogg's work includes only what, until the contrary is proved, may be presumed to be valid species. No synonyms are included, and as these synonyms are very numerous, it has appeared to me useful to bring them all together. When such an astute worker as Piaget has been led more than once to use anew a name that had fallen into oblivion as a synonym, the risk of more recent workers doing the same thing need hardly be emphasised.

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Secondly, Kellogg has accepted Piaget as the final authority on the synonymy of those species described by European authors. But Piaget was very impatient of any work less perfect than his own, and has quite unjustifiably discarded many descriptions on the grounds of insufficiency. Moreover, Piaget, in common with all other writers on Mallophaga, dated the origin of Mallophagan species from Nitzsch's classification in 1818, and ignored everything between that date and the tenth edition of the Systema Naturae in 1758. Denny, in particular, has suffered at the hands of the Dutch author, but Denny's types are to be seen at the British Museum, and Denny's species cannot be overlooked because his figures and descriptions did not satisfy Piaget's fastidious taste.

A third defect, for so it appears to mc, is that Kellogg has referred the descriptions of European species to the three great monographs, of Nitzsch (Giebel), Piaget, and Taschenberg, and not to the actual original descriptions. In the case of the last two this matter is not of much importance. Piaget published a fairly considerable number of descriptions in periodicals prior to their appearance in Les Pédiculines and its Supplément; but as only one or two other workers were writing on Mallophaga during this period, no confusion can result from reference to the monograph, though the procedure is not correct. The same may be said of Taschenberg. But with Nitzsch the case is very different. The German professor published a list of species, all nomina nuda, in 1818, and these names were bandied about Europe for the succeeding fifty years, at the end of which Giebel actually published Nitzsch's diagnoses. De Haan, in editing Lyonet's posthumous work, seized upon a few of them, and attached them to the latter author's figures and descriptions. Burmeister described a few more, and repeated a number of the names, still as nomina nuda. Denny, in correspondence with Burmeister, attached Nitzschian names to a number of his figures and descriptions. Finally Giebel, in his Zeitschrift, actually published Nitzsch's descriptions. It is absolutely essential that the actual date of the description which first appeared in connection with a Nitzschian name should be recorded, and this I have endeavoured to do in my list.

These are the main grounds upon which I would justify the present list. Apart from them, there are minor sins of omission and commission in Kellogg's work. Many species are listed more than once in different genera. For instance, the species which appears in my list as Paroncophorus cephalotes was placed by Giebel, in Insecta Epizoa, under Nirmus; by Piaget, in Les Pédiculines, under Docophorus; and later, in his Supplément, under Oncophorus. It appears in Kellogg's list as

a valid species under all three genera. Even one of Kellogg's own species, first described as Nirmus, but subsequently, on the discovery of the male, as Lipeurus faralloni, appears under both genera. Certain omissions have been due to a failure to examine the whole even of the recent literature of the group. Papers by Neumann, Piaget, and Le Souëf describing new species have been ignored, although the species described were duly catalogued in the Zoological Record. Certain descriptions by a very distinguished American entomologist, Packard, have been enveloped in a wholly needless mystery. In his "List of Biting Lice (Mallophaga) taken from Birds and Mammals of North America" (Proc. U.S. Nat. Mus., XXII.), Kellogg, on p. 48, quotes Docophorus syrnii Packard from Gurlt, with the statement that "neither Osborn nor I have been able to find the original record for this species." On p. 67 of the same work we read:

"Goniodes mephitidis Packard, Rept. U.S. Geol. and. Geog. Survey, 1872, p. 732. Taken from a skunk, Mephitis, but probably a straggler from some gallinaceous bird which was the prey of the animal."

This entry gives a perfectly correct reference to the paper in which Docophorus syrnii was described, and which neither Kellogg nor Osborn was able to find. That Kellogg had not referred to it is perfectly obvious from the qualifying remark quoted above, for Packard gives a good figure of his Goniodes mephitidis which shows quite clearly that it is identical with the insect described more than twenty years later by Osborn as Trichodectes mephitidis, and is not "a straggler from some gallinaceous bird." Incidentally, Packard's species were listed in the Zoological Record under a correct reference; and his descriptions and-figures were also reprinted in the American Naturalist, vIII.

But these minor matters do not affect the general value of Professor Kellogg's list, which I have used myself to great advantage, and errors are inevitable in any large compilation.

Another factor that has been largely responsible for the present publication has been the activity of a considerable number of workers now writing on Mallophaga, and the beginnings that have been made by these workers in breaking up the larger genera. This process of subdivision will assuredly go on rapidly, and it seems to me that the present is the best time to decide upon the correct names of the known species, while they are still included in large genera. At a later stage, when species have passed into smaller generic divisions, much greater difficulty will be experienced in clearing up the nomenclature.

Finally, I have taken advantage of the opportunity afforded by a visit to England to examine personally the whole literature of Mallophaga,

a historical research of some magnitude, as my Bibliography will show, and one which I could not hope to have carried out in Australia. This examination has brought to light a considerable amount of neglected literature, and doubtless there is more still awaiting discovery. In dealing with it, I have endeavoured to do justice to some forgotten workers, and I hope that systematists will remember this point of view when they chafe at the disappearance of a few well-known names.

So much for my justification! As to the plan of the present work, I have aimed, in the first place, at economising space. I publish my decisions on questions of nomenclature, without much of the argument upon which they are based. At a later date I may have an opportunity of discussing some of these decisions in greater detail. In all questions of nomenclature I have acted rigidly upon the *International Code* and upon the recommendations which accompany it, because I see no other way of achieving finality.

The subject-matter is divided into eight parts, upon some of which I wish to give a little information:

- (i) General Introduction.
- (ii) List of species of Mallophaga included in the genera Pediculus Linn., Ricinus Degeer, and Nirmus Hermann. The reasons for making this a separate list are sufficiently set forth in the introductory note to the list itself. Each of these genera stood to include all known Mallophaga, and they must be regarded as equivalent. The names included in this list are thus all those used for Mallophaga prior to the introduction of Nitzsch's classification. All the names which I have been able to connect with a modern genus have been carried over to the main list, whether the species be recognisable or not. At the end of the section I give a list of the names which I have not been able to carry over, names which I am obliged to discard at this stage.
- (iii) List of generic and subgeneric names, valid and invalid, used for Mallophaga. In this list, as in the list of species, no distinction has been made between genera and subgenera. The cause of invalidity is briefly indicated for each genus which is not held valid, excepting only a few that have not previously won a general recognition; and in a few instances a reference is given to further discussions of the point involved. The genotype is indicated for both valid and invalid genera. Taschenberg's subgenera, here treated as invalid, will undoubtedly have to come into general use. I have preferred not to introduce them at present for the reason already referred to, namely that it is advisable to clear up as far as possible all questions of nomenclature before breaking up the existing unwieldy genera. For the same reason I have

also discarded Neumann's *Menacanthus*, which will have to come back into use. I put forward this list frankly as a basis for future revisional work, and not as anything in the nature of a final achievement.

- (iv) Scheme of Classification. This is briefly explained in the note which precedes it. It is simply a provisional scheme for the purpose of the present publication, and I do not wish to lay any emphasis upon it here. I thought at first of listing the species under genera following one another in alphabetical order; but eventually decided that it would be more desirable to have closely related genera, as far as possible, close to one another.
- (v) List of species and subspecies, valid and invalid, of Mallophaga. This constitutes the main part of the publication. The species are listed in alphabetical order under the 56 genera, the latter being in the order given in the Scheme of Classification. Specific and sub-specific, or varietal, names are not distinguished as far as validity is concerned. To each name is attached a record of the first technically valid description. My treatment of host distribution is due to considerations of space. Where there is only one host, that is given. But where the hosts become plural, or numerous, I indicate a genus, family, or order, as the case may be. Reference to Kellogg's List, or to the monographic works of Giebel and Piaget, will serve to give the actual known distribution. As Professor Kellogg has announced the forthcoming production of a host list with modern nomenclature, I have not tried to anticipate this by interfering with the host nomenclature. On two points, however, I have exercised special care. For all species listed as invalid I have endeavoured to include the type host, for convenience should a question of reinstating the species arise; and for species recorded from a suspect type host I have indicated, or suggested, the true host or host-group. Geographical distribution, since it is of little value, is only rarely indicated.

No attempt has been made to apportion credit for the revisional work indicated by the synonymy. A great deal of synonymy has been copied from work to work, so that it would be a difficult, as well as an utterly useless, task to discover the first authority. I have reduced a number of species to synonyms myself, but they are not specially indicated.

A number of species are included as valid, not because I believe them to be so, but because it is uncertain of what species they may be synonyms. Probably an equal number of species have been reduced to the rank of synonyms which future research will establish as perfectly valid. As I have said before, this publication is only to be considered as a basis for future revisions; and on this point I have a little more to say later on.

The number of specific names given in the list is 2395, of which 1520 are treated as valid, and 875 as invalid.

- (vi) Bibliography. This does not purport to be a complete bibliography of Mallophaga, nor does it include anything like all the works examined in the preparation of this List. But it does include all the works with which I am acquainted, or to which I could find references, which deal with systematics and nomenclature. A considerable number of these are here quoted for the first time. Thanks to the courtesy and kindly assistance of the library staffs at the Cambridge University, Cambridge Philosophical Society, and the British Museum (Natural History) Libraries, I have personally studied all these works, with only one or two exceptions.
- (vii) List of new names introduced in this publication. Owing to the inclusion in my list of a large number of synonymical names, a number of current names for species are shown to be invalid. For these I have been obliged to put forward new names, which are distinguished by an asterisk in the list itself; but which I have brought together under this heading for the purpose of affording more convenient reference.
- (viii) Index to genera. This hardly demands explanation. It applies only to the List of Specific Names, and is included to facilitate reference. In the other lists, Sections ii and iii, names are in alphabetical order; and the same holds for the species included under each genus in Section v; so that a multiplication of indices has seemed to me unnecessary.

Having made a complete survey of the systematic work upon Mallophaga up to the present, I may perhaps be permitted to set upon paper a few thoughts as to this work in the future. In the course of my somewhat tedious labour, I have been appalled at the number of species which must for the present be allowed to stand as valid, but which will never be really recognised until either the types have been examined and carefully redescribed, or fresh material from the same host has been critically examined and dealt with. If we are to avoid a continuation of this state of affairs, it seems to me that it will be necessary to establish definite criteria upon which specific descriptions may be based. This is hardly a matter for an individual worker, but it should be possible to arrive at some decision after an informal discussion among the specialists at present working on the group. The few points which I put forward in the next paragraphs are simply tentative suggestions, and are the outcome of my own gropings after light.

The systematic worker is at present faced with two alternatives, when he comes to write a description of a new species. Either he must write a very long and detailed description, giving equal value to an infinite number of characters, some of which he may find later to be very variable; or he may try, in a brief account, to found his species upon a few characters of absolute diagnostic value. In the former case the work is laborious, which would not be of any consequence did the result justify it; but the longest description very frequently fails to characterise one of two closely related species, if it has been discussed without reference to the other. In the latter case there is, at present, no general agreement among workers, and the opinions of one man as to what is of absolute diagnostic value will differ widely from those of another.

I should like to suggest a few methods and characters by means of which we may hope to have more satisfactory specific descriptions in the future, especially as I may in this way induce some discussion on the point. First I would wish to insist on the discussion of a new species with reference to its nearest relatives, if these can be accurately determined. When Giebel stated that his Nirmus angulicollis, from a petrel. found its nearest ally in N. fenestratus of the cuckoo, he wrote mischievous rubbish. The comparison of species by dumping them into artificially contrived groups may be almost as dangerous. Kellogg (1909, p. 119) writes of Lipeurus absitus from the hoatzin: "This new Lipeurus of the group clypeati sutura distincta (all the other members of which have been taken from strictly maritime and coast birds) is thoroughly distinct from the other species of the group." This statement is, of course, absolutely correct; but the inference is that Lipeurus absitus is more closely related to these marine Lipeuri than to any others, which is certainly not the case. Obviously the group clypeati sutura distincta is not a natural one, or, at all events, its definition should be limited; and no good can come of comparing two unrelated species because they happen to fall within its artificial limits. I do not for a moment accuse Kellogg of bowing before the fetish of an inelastic group definition; but Neumann certainly has done so, on two separate occasions. He has (1914) attempted to transfer Goniodes lipogonus and G. complanatus to the genus Degeeriella, because they do not come within the verbal limits of the former generic definition. He gibes at Taschenberg, who previously encountered the same difficulty, for erecting a new genus Strongylocotes to receive these forms. berg's treatment had, at any rate, the merit of leaving the species among the forms to which they were most closely related. Neumann

preferred to tear them from their natural surroundings and transfer them to an utterly unrelated group, simply because the existing generic definition seemed to him the better to include them. The second case is that of his  $Degeeriella\ charcoti$ , which is a petrel  $Lipeurus\ closely\ akin$  to  $L.\ gurlti$ . Here, again, he has chosen, rather than expand the definition of the genus Lipeurus, to transfer the species from its natural position. The sequel has been that Mjöberg, comparing the species with those among which Neumann had placed it, has erected for it a new genus  $Pseudonirmus\ (Nirmus=Degeeriella)$ , which I discard at present, but which will ultimately have to be used for that group of petrel  $Lipeuri\ ranging\ from\ L.\ gurlti\ to\ L.\ charcoti$ , a group which has nothing whatever to do with Nirmus. It is cases such as these which induce me to ask for accurate determination of affinities. We do, after all, propose to deal with organisms, not definitions.

If these affinities can be indicated, the species to be described is at once limited to a more or less small group, with many features in common, such features serving no good purpose in a specific description. We now want actual diagnostic characters, and the question is—Where may these best be found? I have no desire at present to lay down any scheme of description, but I myself find the best characters for separating closely related species in the following points: The general proportions of head and thorax; the structure of that part of the head in front of the mandibles, dealt with in a cleared mount, not simply on the dorsal surface; the thoracic sternites; the genital plate and blotches of the  $\varphi$ ; and the chitinous genitalia of the  $\vartheta$ . In the Amblycera, a careful study of the lateral region of the head, both dorsally and ventrally, is important. In many species outstanding features occur in other parts; but, with careful figures, a description of the parts I have mentioned should suffice.

Waterston has already insisted on the value of the 3 genitalia, which certainly present the very best characters obtainable. Nor are these difficult to prepare for examination. If the insect be heated in 10 per cent. caustic until the soft parts are destroyed, then passed into glacial acetic acid, and from that into oil of cloves, a few touches with fine needles under a binocular microscope will serve to separate the genitalia from the body, and both may be mounted directly into balsam on the same slide. After very little practice, the dissection of the genitalia hardly involves any addition to the time occupied in making mounts.

With regard to figures, I think it is desirable to have a complete figure of each insect, supplemented by more highly magnified figures of diagnostic details, such as the structure of the anterior part of the head, and of the 3 genitalia. Measurements need only include total length and breadth, and the length and breadth of the main divisions of the body. I attach no value to the measurement of every article of an antenna, or of a tarsus, to three decimals of a millimetre, because the possible margin of error is so large as to absolutely vitiate the results.

Finally, I should like to add a few words on the future classification of Mallophaga. We have to deal with a group that, owing to its biological conditions, has suffered what I might call a retarded evolution. There is a general uniformity concealing an infinite number of small variations. Because these variations have been small, they have never been considered of generic value. But I claim that, if we are ever to put the systematics of the group upon a satisfactory basis, we must accord it special treatment, on account of its special biological We must allow more value to small differences than is allowed among groups of free-living insects. The present large genera of Mallophaga are absurd accumulations of heterogeneous forms. A species is a *Lipeurus*, or a *Degeeriella*, simply because it is just so long and just so broad, and has, or has not, a crotchet upon some segment of the male antenna! My own firm conviction is that the genus Lipeurus alone includes almost as many groups of real generic value as there are generic names in my Section iii.

It seems to me that the most valuable kind of systematic work in the immediate future will be close revisional work upon limited groups of species. I have been working myself upon the *Lipeuri* of petrels, and find that, with a general facies that is easily recognised, there are at least eight groups of generic value, each containing a number of species. I find, moreover, that several perfectly valid species are at present confused under a single name, in several instances. Waterston finds the same condition among the species of *Degeeriella* from plovers. Groups such as the *Degeeriella fusca* group from hawks, or the *Philopterus icterodes* group from ducks, are not single species, but are capable of being separated, by careful work, into a number of species. Such work is of more importance at the present time than the description of casual new species, unless the latter present particularly striking and important features.

I have to offer my thanks to several friends and correspondents for help of various kinds, among whom I may mention especially Messrs James Waterston, Imperial Bureau of Entomology; Bruce Cummings, British Museum; and G. F. Ferris, Stanford University. To Professor Nuttall, who has given me a free hand to indulge in such typographical

extravagances as seemed likely to make this work most useful for reference, and who has at all times willingly given me the benefit of his wide experience, I owe a special debt of gratitude; and a word of thanks is also due to that efficient institution, the Cambridge University Press, for its patience with my experiments, and the way in which it has lightened the task of seeing a somewhat intricate publication through the hands of its printers. Finally I have to thank the Royal Commissioners of the Exhibition of 1851, since the production of this publication has been rendered possible by my coming to England as holder of a research scholarship from them.

II.

Species of Mallophaga included in the genera Pediculus Linn., Ricinus Degeer, and Nirmus Hermann.

The three genera named above must be treated as equivalent, inasmuch as each included all Mallophaga. Where no genus is mentioned in the following list, *Pediculus* must be understood. The names *Ricinus* and *Nirmus* are included after the name for such species as were originally described in these genera. Considerations of space have prevented any detailed argument on the synonymy introduced, which rests upon my personal judgment after a due examination of all the original sources of information available. Doubtless later critical work will alter some of my decisions, but I hope that they will, in the main, prove well founded.

The name appearing in brackets at the end of each reference to a species is that which is carried over to the main List of Species. If that name appear in Roman type, it is to be looked upon as a valid species; if in italics, as either a synonym, or a name to be discarded. My practice in dealing with certain homonyms may not be quite clear to the reader, so I will illustrate it by an example. Ricinus lari Degeer, 1778, is a synonym of Pediculus querquedulae Linn., which is, in the modern classification, a Trinoton. Pediculus lari O. Fabr., 1780, is a Philopterus, and consequently a homonym of lari Degeer, by which it is invalidated. Philopterus lari O. Fabr. appears nevertheless in the List of Species under the genus Philopterus, in italics as an invalid name; and is held to invalidate any subsequent use of the specific name lari in the genus Philopterus.

adustus. Nirmus. Olfers, De vegetativis etc., 1816, p. 87 =
Pediculus (Philopterus) corvi Linn.
(Philopterus adustus Olf.)

aeruginosi.	Nirmus. Leach MS. in Denny, List. Brit. An., 1852, p. 16 = Degeeriella fusca N. Nom. nud. (Degeeriella aeruginosi Leach.)
alaudae.	Schrank, Beyträge, 1776, p. 115, figs. 5–6. Syn. Menopon parviceps Piaget. (Menopon alaudae Schr.)
albicillae.	Nirmus. Leach MS. in Denny, List. Brit. An., 1852, p. 39 = Laemobothrion tinnunculi L. (Laemobothrion albicillae Leach.)
albiventris.	Scopoli, Ent. Carn., 1763, p. 385 = Pediculus (Philopterus) subfavescens Geoff. (Philopterus albiventris Scop.)
ardeae-cinereae.	Fabricius, Ent. Syst., 1794, p. 422 = ardeae L. (Esthiopterum ardeae-cinereae Fabr.)
ardealis.	Scopoli, Ent. Carn., 1763, p. 384 = ardeae L. (Esthiopterum ardeale Scop.)
auritus.	Scopoli, Ent. Carn., 1763, p. 383. From Picus major, P. martius. Syn. Docophorus superciliosus Nitzsch. (Philopterus auritus Scop.)
$a lea e\hbox{-}arcticae.$	Müller, Zool. Dan. Prod., 1776, p. 185. Nom. nud.
anatis.	Fabricius, Ent. Syst., Suppl., 1798, p. 571 = Esthiopte- rum crassicorne Scop. (Syn. Lipeurus squalidus Nitzsch). (Esthiopterum anatis Fabr.)
anserinus.	Fabricius, Syst. Ant., 1805, p. 345. Syn. Trinoton conspurcatum Nitzsch.  (Trinoton anserinum Fabr.)
anseris.	Linné, Syst. Nat., 1758, p. 612. Syn. Lipeurus jejunus Nitzsch. (Esthiopterum anseris L.)
anseris.	Sulzer, Abg. Ges. Ins., 1776, Taf. 29, f. 4, nec Linné = anserinus Fabr.
7	(Trinoton anseris Sulz.)
ardeae.	Linné, Syst. Nat., 1758, p. 613. Syn. Lipeurus leuco- pygus Nitzsch. (Esthiopterum ardeae L.)
bassanae.	O. Fabricius, Faun. Groen., 1780, p. 218. Syn. Lipeurus pullatus Nitzsch.  (Pectinopygus bassanae O. Fabr.)
bassani.	Müller, Zool. Dan. Prod., 1776, p. 185. Nom. nud.
biarmici.	Nirmus. Leach MS. in Denny, List. Brit. An., 1852,
oturmioi.	p. 11 = Docophorus pari Denny. Nom. nud. (Philopterus biarmici Leach.)
bidentatus.	Scopoli, Ent. Carn., 1763, p. 385. Syn. Goniocotes compar Nitzsch. (Goniocotes bidentatus Scop.)
bifurcatus.	Olfers, De Vegetativis etc., 1816, p. 83 = porcelli Linn. (Gliricola bifurcata Olf.)
bovis.	Linné, Syst. Nat., 1758, p. 611. Syn. Trichodectes scalaris Nitzsch. (Trichodectes bovis L.)

brachyoti. Nirmus. Leach MS. in Denny, List. Brit. An., 1852, p. 13 = Philopterus cursor Nitzsch. Nom. nud.(Philopterus brachyoti Leach.) Fabricius, Gen. Ins., 1776, p. 309 = maximus Scop.buteonis. (Laemobothrion buteonis Fabr.) canis. Ricinus. Degeer, Mém. Hist. Ins., 1778, vii, p. 81, Pl. 4, f. 16. Syn. Trichodectes latus Nitzsch. (Trichodectes canis Degeer.) caponis. Linné, Syst. Nat., 1758, p. 614. Syn. Lipeurus variabilis Nitzsch. (Lipeurus caponis L.) Linné, Syst. Nat., 1758, p. 611. Syn. Trichodectes cervi. longicornis Nitzsch. (Trichodectes cervi L.) Linné, Syst. Nat., 1758, p. 613. Founded upon Redi's charadrii. Pl. xi (quoted in error as ix) which includes a Colpocephalum and a Degeeriella. Neither figure is specifically referred to, so the name must be discarded. chelidonius. Schrank, Fauna Boica, 1803, p. 194. Host given as 'Spürschwalbe' for which I cannot find a meaning. (Degeeriella chelidonia Schr.) Schrank, Beyträge, 1776, p. 118, f. 10 = subflavescenschloridis. Geoff. (Philopterus chloridis Schr.) Schrank, Fauna Boica, 1803, p. 189. Syn. chloropodis. bothrion nigrum Burm. (Laemobothrion chloropodis Schr.) Linné, Syst. Nat., 1758, p. 613. Syn. Lipeurus versiciconiae. color Nitzsch. (Esthiopterum ciconiae L.) Ricinus. Latreille, Hist. Nat. Ins., 1803, p. 103 circi. = tinnunculi L. (Laemobothrion circi Latr.) Schrank, Beyträge, 1776, p. 116, f. 7 = subflavescens citrinellae. Geoff. (Philopterus citrinellae Schr.) O. Fabricius, Faun. Groen., 1780, p. 217 = querquedulae clangulae.(Trinoton clangulae O. Fabr.) L. coarctatus. Scopoli, Ent. Carn., 1763, p. 382. Syn. Menopon fuscocinctum Denny. (Menopon coarctatum Scop.) coelebitis. Leach MS. in Denny, List. Brit. An., 1852, Nirmus. Nom. nud. = subflavescens Geoff. p. 14. (Philopterus coelebitis Leach.) collurionis. Schrank, Fauna Boica, 1803, p. 187 = coarctatus Scop. (Menopon collurionis Schr.) columbae.Linné, Syst. Nat., 1758, p. 614. Syn. Lipeurus baculus Nitzsch. (Esthiopterum columbae L.) Müller, Zool. Dan. Prod., 1776, p. 185. Nom. nud. colymbi-grylle.

colymbinus.	Scopoli, Ent. Carn., 1763, p 384. Syn. Nirmus fuscomarginatus Denny. (Degeeriella colymbina Scop.)
cornicis.	Fabricius, Syst. Ent., 1775, p. 807 = ocellatus Scop. (Philopterus cornicis Fabr.)
cornicis.	Ricinus. Degeer, Mém. Hist. Ins., 1778, vii, p. 76, Pl. 4, f. 11. Syn. Menopon mesoleucum Nitzsch. Invalidated by previous species.  (Myrsidea cornicis Degeer.)
corvi.	Linné, Syst. Nat., 1758, p. 612. Syn. Docophorus atratus Nitzsch. (Philopterus corvi L.)
crassicornis.	Scopoli, Ent. Carn., 1763, p. 383. Syn. Lipeurus squalidus Nitzsch.
	(Esthiopterum crassicorne Scop.)
crassicornis.	Nirmus. Olfers, De vegetativis etc., 1816, p. 88. Syn. Lipeurus jejunus Nitzsch. Invalidated by previous species. (Esthiopterum crassicorne Olf.)
cuculi.	Fabricius, Syst. Ent., 1775, p. 807 = fasciatus Scop. (Menopon cuculi Fabr.)
curuccae.	Schrank, Beyträge, 1776, p. 113. Syn. Menopon minutum Nitzsch.
	(Menopon curuccae Schr.)
curvir ostrae.	Schrank, Beyträge, 1776, p. 117, f. 8 = subflavescens Geoff. (Philopterus curvirostrae Schr.)
cuspidatus.	Scopoli, Ent. Carn., 1763, p. 385. Syn. Nirmus cuspidatus Denny.
	(Rallicola cuspidata Scop.)
cygni.	Linné, Syst. Nat., 1758, p. 612. Syn. Ornithobius cygni Denny. (Ornithobius cygni L.)
dentatus.	Scopoli, Ent. Carn., 1763, p. 383. Syn. Docophorus icterodes Nitzsch. (Philopterus dentatus Scop.)
diomedeae.	Fabricius, Syst. Ent., 1775, p. 808. Syn. Lipeurus ferox Giebel. (Esthiopterum diomedeae Fabr.)
dolicho cephalus.	Scopoli, Ent. Carn., 1763, p. 382. Syn. Physostomum sulphureum Nitzsch.  (Ricinus dolichocephalus Scop.)
elong atus.	Nirmus. Olfers, De vegetativis etc., 1816, p. 88. Syn. Physostomum mystax Nitzsch. (Ricinus elongatus Olf.)
emberizae.	Ricinus. Degeer, Mém. Hist. Ins., 1778, vii, p. 74, Pl. 4, f. 9-10 = subflavescens Geoff.  (Philopterus emberizae Degeer.)
equi.	Linné, Syst. Nat., 1758, p. 612. Syn. Trichodectes parumpilosus Piaget. (Trichodectes equi L.)

Scopoli, Ent. Carn., 1763, p. 383. Syn. Menopon fasciatus. phanerostigmaton Nitzsch. (Menopon fasciatum Scop.) Olfers, De vegetativis etc., 1816, p. 90 filiformis. = columbae L.(Esthiopterum filiforme Olf.) flammineae. Nirmus. Leach MS. in Denny, List. Brit. An., 1852, p. 10. Nom. nud. Syn. Docophorus rostratus Nitzsch. (Philopterus flammineae Leach.) Nirmus. Olfers, De vegetativis etc., 1816, p. 89. fornicatus. A Philopterus from gulls and terns, not recognisable with certainty. Discard. (Philopterus fornicatus Olf.) Scopoli, Annus V, 1772, p. 125. Not recognisable fringillae. generically. Discard. Ricinus. Degeer, Mém. Hist. Ins., 1778, vii, p. 71, fringillae. Pl. 4, f. 5-8. Invalidated by previous species = Physostomum nitidissimum Nitzsch. (Ricinus fringillae Degeer.) Linné, Syst. Nat., 1758, p. 613. Founded on Redi's Tav. 4, which includes three species belonging to fulicae. three different genera. As no figure is definitely indicated, the name must be discarded. Schrank, Fauna Boica, 1803, p. 191. Reference to fulicae. Redi, Tav. 4, f. 3, which is the Docophorus pertusus of Nitzsch. Invalidated by previous species. (Philopterus fulicae Schr.) Nirmus.Leach MS. in Denny, List. Brit. An., 1852, fuligulae. Nom. nud. = dentatus Scop.p. 13. (Philopterus fuligulae Leach.) Linné, Syst. Nat., 1758, p. 613. Syn. Menopon gallinae. pallidum Nitzsch. (Menopon gallinae L.) Ricinus. Degeer, Mém. Hist. Ins., vii, 1778, p. 79, Pl. 4, f. 15. Invalidated by previous species gallinae.= Goniocotes hologaster Nitzsch. (Goniocotes gallinae Degeer.) Geoffroy, Hist. Abr. Ins., 1762, p. 600 = meleagridis L. gallipavonis. (Lipeurus gallipavonis Geoff.) Leach MS. in Denny, List. Brit. An., 1852, glandarii. Nirmus.Nom. nud. = Docophorus fulvus Nitzsch. (Philopterus glandarii Leach.) Nirmus. Olfers, De vegetativis etc., 1816, p. 91 = subglobifer. flavescens Geoff. (Philopterus globifer Olf.) Linné, Syst. Nat., 1758, p. 613. Syn. Lipeurus ebraeus gruis. (Esthiopterum gruis L.) Nitzsch. O. Fabricius, Faun. Groen., 1780, p. 218. Syn. grylle.Docophorus megacephalus Denny. (Philopterus grylle O. Fabr.)

haematopi. Linné, Syst. Nat., 1758, p. 613. Founded on No. 1164 of Fn. Suec. Genus not recognisable with certainty. Discard. haematopodis. Fabricius, Syst. Ant., 1805, p. 347, emend. for haematopi L. Discard. Scopoli, Ent. Carn., 1763, p. 381. A Philopterus. haematopus. Invalidated by haematopi L. (Philopterus haematopus Scop.) Nirmus. Olfers, De vegetativis etc., 1816, p. 87 = tinhasticeps. (Laemobothrion hasticeps Olf.) nunculi L. hiaticulae. Müller, Zool. Dan. Prod., 1776, p. 185. Nom. nud. hiaticulae. "Müller," O. Fabricius, Faun. Groen., 1780, p. 220. Syn. Nirmus fissus Nitzsch in Burm. (Degeeriella hiaticulae Müll.) himantopi. Nirmus.Leach MS. in Denny, List. Brit. An., 1852, p. 10. Nom. nud. (Philopterus himantopi Leach.) hirundinis. Fabricius, Syst. Ent., 1775, p. 809. Not recognisable. Discard. "Linn. Fn. Suec., No. 1963." Schrank, Fauna Boica, hirundinis. 1803, p. 193. A Menoponid, probably = Dennyusburmeisteri Denny, not Docophorus excisus as quoted by Nitzsch, 1818, p. 290. In any case, is invalidated by the previous species, with which it is not identical. Ricinus. Barthélemy, Ann. Soc. Ent. France, v, 1836, houbarae.p. 689. (Binomial is used only in explanation of Pl. xx, f. B.) An Esthiopterum. (Esthiopterum houbarae Bart.) Linné, Syst. Nat., 1758, p. 612. Based on a brief infausti. description in the Fn. Suec. of what is very clearly a Psocid. Discard. Scopoli, Ent. Carn., 1763, p. 384. junceus. (Degeeriella juncea Scop.) Linné, Syst. Nat., 1758, p. 614. Founded on brief lagopi. description of No. 1167, Fn. Suec. Not recognisable with certainty. Discard.

lagopodis. Fabricius, Syst. Ant., 1805, p. 349, emend. for lagopi

L. Discard. lanii.

lari.

lari.

Fabricius, Ent. Syst. Suppl., 1798, p. 570. Syn. Docophorus fuscicollis Nitzsch. (Philopterus lanii Fabr.)

Müller, Zool. Dan. Prod., 1776, p. 185. Nom. nud. Ricinus. Degeer, Mém. Hist. Ins., vii, 1778, p. 77, Pl. 4, f. 12 = querquedulae L. (Trinoton lari Degeer.)

ostralegi.

attenuatus [Nitzsch] Piaget. (Rallicola ortygometrae Schr.)

Nirmus.Leach MS. in Denny, List. Brit. An., 1852, p. 8. Nom. nud. Invalidated by Docophorus ostralegi Denny, the type of which proves it to be a synonym of D. leontodon Nitzsch (= sturni Schr.). Leach's MS. apparently refers to the true Philopterus

of the oyster-catcher.

ovalis.	Scopoli, Ent. Carn., 1763, p. 384. From Scolopax
ovis.	(Numenius) arquatus. Not recognisable. Discard. Linné, Syst. Nat., 1758, p. 611. Syn. Trichodectes
0010.	sphaerocephalus Olf.  (Trichodectes ovis L.)
ovis arietis.	Schrank, Faun. Boica, 1803, p. 187 = ovis L.
	(Trichodectes ovisarietis Schr.)
pari.	Linné, Syst. Nat., 1758, p. 614. Founded on Frisch, Ins. viii, p. 9, t. 1, f. 5. Not recognisable. Discard.
paripalustris.	Scopoli, Annus V, 1772, p. 125. Not recognisable. Discard.
passer is.	de Fourcroy, Ent. Paris., 1785, p. 518 = subflavescens Geoff. (Philopterus passeris Four.)
pavon is.	Linné, Syst. Nat., 1758, p. 613. Syn. Goniodes falcicornis Nitzsch. (Goniodes pavonis L.)
phasiani.	Fabricius, Gen. Ins., 1776, p. 310. Not recognisable with any certainty. Discard.
picae.	Linné, Syst. Nat., 1758, p. 612. Founded on Redi, Exp., t. 5. In the original Italian edition, this figure is stated to refer to a parasite of an egret (garza). The Latin edition translates this as if it were gazza, a jay. Linné's species is undoubtedly that mentioned in the Fauna Suecica as coming from Pica lapponica. Redi's figure is not recognisable, and it would seem best to discard the name.
-pici.	Fabricius, Ent. Syst., Suppl., 1798, p. 570. Syn. Docophorus scalaris Nitzsch.  (Philopterus pici Fabr.)
pici.	Schrank, Faun. Boica, 1803, p. 188. Nom. nov. for auritus Scop. (Philopterus pici Schr.)
pilosus.	Scopoli, Ent. Carn., 1763, p. 384. Not recognisable. Discard.
plataleae.	Linné, Syst. Nat., 1758, p. 613. Syn. Lipeurus plat- alearum Nitzsch. (Esthiopterum plataleae L.)
porcelli.	Linné, [Syst. Nat., 1758, p. 611, without description or indication]. Cr. Linn. and described by Schrank, Ins. Aust., p. 500. Syn. Gyropus gracilis Nitzsch. (Gliricola porcelli L.)
procellariae.	Fabricius, Syst. Ent., 1775, p. 808. From a Procellaria from Brazil. The type is not contained in the Banks Collection in the British Museum. An Esthiopterum, not recognisable. Discard.  (Esthiopterum procellariae Fabr.)
procellariae.	Nirmus. Leach MS. in Denny, List. Brit. An., 1852, p. 26. Nom. nud. = Lipeurus pelagicus Denny. (Esthiopterum procellariae Leach.)
Dana sitala	

prognes. Schrank, Faun. Boica, 1803, p. 194, nom. nov. for hirundinis Fabr. (1775) nec Linn. in Schrank (1803). Linné's name appeared in Faun. Suec., but not in Syst. Nat. = hirundinis Fabr., which is not recognisable. Discard. pterocephalus. Nirmus. Olfers, De vegetativis etc., 1816, p. 91 = rubeculae Schr. (taking first host mentioned). (Ricinus pterocephalus Olf.) pyrrhulae. Schrank, Beyträge, 1776, p. 117, f. 9 = subflavescens(Philopterus pyrrhulae Schr.) Geoff. pyrrhulae. Panzer, Ins. Germ., 1793, figures a Menopon. Invalidated by last species. (Menopon pyrrhulae Panz.) querquedulae. Linné, Syst. Nat., 1758, p. 612. Founded on Redi, Exp., t. 12. Syn. Trinoton luridum Nitzsch. (Trinoton querquedulae L.) ralli. Scopoli, Annus V, 1772, p. 125. Not recognisable. Discard. recurvirostrae. Linné, Syst. Nat., 1758, p. 613. Founded on No. 1163 of Faun. Suec. A Degeeriella, not recognisable with certainty. Discard. (Degeeriella recurvirostrae L.) rubeculae. Schrank, Beyträge, 1776, p. 115, f. 4. Syn. Physostomum agonum Nitzsch. (Ricinus rubeculae Schr.) saviae. Schrank, Faun. Boica, 1803, p. 186, for porcelli Linn. (Gliricola saviae Schr.) scolopacisphaeopodis. Schrank, Faun. Boica, 1803, p. 191. Probably = Docophorus rotundatus Nitzsch, but not certain. Discard. [setosus.] Olfers, De vegetativis etc., 1816, p. 84, quoted by Giebel and others as a synonym of Trichodectes latus Nitzsch, is really the louse, Linognathus piliferus Burm. sphaerocephalus. Olfers, De vegetativis etc., 1816, p. 85 = ovis L. (Trichodectes sphaerocephalus Olf.) sternae. Linné, Syst. Nat., 1758, p. 612. Founded on Redi, Exp., t. 9, f. 2. Probably Docophorus melanocephalus Burm., but not certain. Discard. (Philopterus sternae L.) stridulae. Nirmus. Leach MS. in Denny, List. Brit. An., 1852, Nom. nud. = Docophorus cursor Nitzsch. p. 13. (Philopterus stridulae Leach.) strigis. Scopoli, Annus V, 1772, p. 124. Not recognisable. Fabricius, Syst. Ent., 1775, p. 806. Not recognisable. Müller, Zool. Dan. Prod., 1776, p. 185, nom. nud. O. Fabricius, Faun. Groen., 1780, p. 216, description

of Müller's species, a Philopterus. Name invalidated

(Philopterus strigis Fabr.)

by prior use.

sturni. Schrank, Beyträge, 1776, p. 118, figs. 11–14. Syn. Docophorus leontodon Nitzsch. (Philopterus sturni Schr.) Geoffroy, *Hist. Abr. Ins.*, 1762, ii, p. 599. subflavescens. Docophorus communis Nitzsch. (Philopterus subflavescens Geoff.) tadornae. Nirmus. Leach MS. in Denny, List. Brit. An., 1852, Nom. nud. = Lipeurus tadornae Denny. tantali. Fabricius, Ent. Syst., Suppl., 1798, p. 571. Tantalus leucocephalus India. (Esthiopterum tantali Fabr.) Olfers, De vegetativis etc., 1816, p. 85. Nom. nud. tauri. = bovis Linn. (Trichodectes tauri Olf.) Nirmus. Olfers, De vegetativis etc., 1816, p. 90 tetragonocephalus. = pavonis Linn. (Goniodes tetragonocephalus Olf.) tetraonis. Linné, Syst. Nat., 1758, p. 614. Tetrao tetrix. (Goniodes tetraonis L.) tinnunculi. Linné, Syst. Nat., 1758, p. 612. Syn. Laemobothrion giganteum Nitzsch. (Laemobothrion tinnunculi L.) Guérin, Encyc. Meth.,? 1818, Pl. 254, f. 1. Cred. "Linn. Gm." Is a Philopterus. Invalidated by last species. tinnunculi. (Philopterus tinnunculi Guérin.) totani. Schrank, Faun. Boica, 1803, p. 191. Not recognisable. Discard. trigonocephalus. Nirmus. Olfers, De vegetativis etc., 1816, p. 90 = galli-(Menopon trigonocephalus Olf.) nae Linn. tringae. O. Fabricius, Faun. Groen., 1780, p. 219. Not recognisable. Discard. Schrank, Faun. Boica, 1803, p. 190 = junceus Scop., tringae. nec tringae O. Fabr. (Degeeriella tringae Schr.) tringaestriatae. Müller, Zool. Dan. Prod., 1776, p. 185. Nom. nud. Nirmus. Olfers, De vegetativis etc., 1816, p. 91. truncatus. Pediculus chelidoneus Schr. as stated. Syn. Nitzschia burmeisteri Denny. (Dennyus truncatus Olf.) Schrank, Faun. Boica, 1803, p. 189. upupae. (Philopterus upupae Schr.) urogalli. Schrank, Faun. Boica, 1803, p. 192. Nom. nud. Fabricius, Mant. Ins., 1787, p. 369. Procellaria vagelli. (Ancistrona vagelli Fabr.) glacialis. vanelli. Schrank, Faun. Boica, 1803, p. 190. A Degeeriella, species not recognisable. (Degeeriella vanelli Schr.)

vanelli. Nirmus. Leach MS. in Denny, List. Brit. An., 1852,

p. 21 = Nirmus junceus Scop.

(Degeeriella vanelli Leach.)

vulturis. Fabricius, Syst. Ent., 1775, p. 806. A Laemobothrion, species not recognisable.

(Laemobothrion vulturis Fabr.)

Names discarded in this list.

 $Pediculus\ aleae-arcticae\ {\tt M\"ull}. \qquad Pediculus\ ovalis\ {\tt Scop}.$ 

,, bassani Müll. ,, pari Linn.

,, charadrii Linn. ,, paripalustris Seop. ,, colymbi-grylle Müll. ,, phasiani Fabr. ,, fringillae Seop. ,, picae Linn. ,, pilosus Seop.

,, fulicae Linn. ,, pulosus Scop. ,, haematopi Linn. ,, prognes Schr. ,, haematopodis Fabr. ,, ralli Scop.

,, hirundinis Fabr. ,, scolopacis-phaeopodis Schr.

,, infausti Linn. ,, totani Schr. , lagopi Linn. , tringae O. Fabr.

,, lagopodis Fabr. ,, tringae-striatae Müll.

Pediculus urogalli Schr.

#### III.

LIST OF GENERIC AND SUBGENERIC NAMES, VALID AND INVALID, USED FOR MALLOPHAGA.

[Note. Genera not treated as valid in the List of Species which follows are printed in italics.]

Acidoproctus. Piaget, Tijd. v. Ent., vi, 1878, p. 178. Type, A. marginatus Piaget.

Akidoproctus. Piaget, Les Pédiculines, 1880, p. 208, = Acidoproctus. Ancistrocephalus. Paine, Psyche, xx, 1913, p. 158 (nec Monticelli), = Physconella.

Ancistrona. Westwood, Thesaurus Entomologicus Oxoniensis, 1874, p. 197. Type, A. procellariae Westwood, = A. vagelli Fabricius.

Aptericola. Harrison, Parasitology, viii, 1915, p. 90. Type, A. gadowi Harrison.

Austrogoniodes. Harrison, Parasitology, vii, 1915, p. 398. Type, A. waterstoni Cummings.

Boopia. Piaget, Les Pédiculines, 1880, p. 599. Type, B. tarsata Piaget.

Taschenberg, Nova Acta, Halle, xliv, 1882, p. 188. Bothriometopus. Type, B. macrocnemis Nitzsch. Coloceras. Taschenberg, Nova Acta, Halle, xliv, 1882, p. 42. Type, Goniodes damicornis Nitzsch. Nitzsch, Germar's Magazin, iii, 1818, p. 298. Colpocephalum. C. zebra Nitzsch. Mjöberg, Arkiv f. Zoologi, vi, 1910, p. 69. Damalinia. Type, D. crenelata Piaget. Degeeriella. Neumann, Bull. Soc. Zool. France, xx, 1906, p. 59, nom. nov. for Nirmus Nitzsch, 1818, nec Hermann, 1804. Type, D. discocephala Nitzsch. Neumann, Bull. Soc. Zool. France, xx, 1906, p. 59, Dennyus. nom. nov. for Nitzschia Denny, 1842, nec Von Baer, 1827. Type, D. burmeisteri Denny, = D.truncatus Olfers. Diplocerus. Nitzsch, in Giebel, Insecta Epizoa, 1874, p. 6, = Gyropus Nitzsch. Docophoroides. Giglioli, Quart. Journ. Micr. Science, iv, 1864, p. 21. Type, D. brevis Dufour. Docophorus. Nitzsch, Germar's Magazin, iii, 1818, p. 289, = Philopterus Nitzsch. (Neumann, 1906.) Harrison, Parasitology, vii, 1915, p. 385. Type, Eomenopon. E. denticulatus Harrison. Harrison, nov., see p. 26. Type, E. ebraeum Nitzsch, in Burmeister. Esthiopterum. Nitzsch, Germar's Magazin, iii, 1818, p. 301. Eureum. E. cimicoides Nitzsch. Taschenberg, Nova Acta, Halle, xliv, 1882, p. 182, Eurymetopus. nec Schönherr, 1840, = Docophoroides Giglioli. Eurytrichodectes. Stobbe, Ent. Rundschau, xxx, 1913, p. 111. Type, E. paradoxus Stobbe. Eutrichophilus. Mjöberg, Arkiv f. Zoologi, vi, 1910, p. 71. E. cercolabes Mjöberg. Giebelia. Kellogg, New Mallophaga, i, 1896, p. 137. Type, G. mirabilis Kellogg. Gliricola. Mjöberg, Arkiv f. Zoologi, vi, 1910, p. 18. Type, G. porcelli Linné. Burmeister, Handbuch der Entomologie, ii, 1838, Goniocotes. p. 431. Type, G. hologaster Nitzsch. Goniodes. Nitzsch, Germar's Magazin, iii, 1818, p. 293. Type, G. pavonis Linné. Gonocephalus. Lyonet (De Haan), Mem. Mus., xviii, 1829, p. 268.

Nitzsch's MS.

Type, G. chelicornis Nitzsch. Quoted by Giebel, Z. f. d. ges. Nat., xviii, 1861, p. 306, as from

G. ovalis Nitzsch.

Nitzsch, Germar's Magazin, iii, 1818, p. 303.

Gyropus.

Haemabarus. Nitzsch, in Giebel, Insecta Epizoa, 1874, p. 6, = Gyropus Nitzsch. Heterodoxus. Le Souëf and Bullen, Vict. Naturalist, xviii, 1902, p. 159. Type, H. longitarsus Piaget. Heteroproctus. Harrison, Parasitology, vii, 1915, p. 394. H. hilli Harrison. Kelloggia. Carriker, Univ. Studies, Nebraska, iii, 1903, p. 31. Type, K. brevipes Carriker. Laemobothrion. Nitzsch, Germar's Magazin, iii, 1818, p. 301. L. giganteum Nitzsch = L. tinnunculi Linné. Laemobothrium. Burmeister, Handbuch der Entomologie, ii, 1838, p. 441, = Laemobothrion. Latumcephalum. Le Souëf, Vict. Naturalist, xix, 1902, p. 51. L. macropus Le Souëf. Lepidophorus. Taschenberg, Nova Acta, Halle, xliv, 1882, p. 61, nec Kirby, 1837, = Ornicholax Carriker. Liotheum. Nitzsch, Voigt's Mag. f. d. Naturk., 1806, p. 420, = Ricinus Degeer. Nitzsch, Germar's Magazin, iii, 1818, p. 292. Lipeurus. L. caponis Linné. Machaerilaemus. Harrison, Parasitology, vii, 1915, p. 389. M. latifrons Harrison. Waterston, Scottish Naturalist, 1912, p. Mackayia. = Trabeculus Rudow. Packard, 6th Ann. Rept. U.S. Geol. Survey, 1872, Maenopon. p. 731, = Menopon Nitzsch. Neumann, Arch. de Parasitologie, xv, 1912, p. 353. Menacanthus. Type, Menopon robustum Kellogg, = Menopon Nitzsch. Nitzsch, Germar's Magazin, iii, 1818, p. 299. Type, Menopon. M. gallinae Linné. Neumann, Bull. Soc. Zool. France, xx, 1906, p. 59, Menopum.emendation of Menopon Nitzsch, q.v. Rudow, Zeit. f. d. ges. Nat., xxxvi, 1870, p. 138 Metapeuron. (type, M. punctatum Rudow, = Ornithobius cygniLinné), = Ornithobius Denny. Micropus. Denny, Monographia Anoplurorum, 1842, p. 247, nec Wolf, 1810, = Gliricola Mjöberg. Myrsidea. Waterston, Ent. Month. Mag., 1915, p. 12. Type, M. victrix Waterston. Nesiotes. Kellogg, Biol. Bull. Marine Lab. Wood's Holl,

v, 1903, p. 89, caption of text-figure, nec Wollas-

ton, 1861, = Nesiotinus Kellogg.

Nesiotinus.	Kellogg, Biol. Bull. Marine Lab. Wood's Holl, v, 1903, p. 89. Type, N. demersus Kellogg.
Nirmus.	Hermann, Mémoir Apterologique, 1804, = Ricinus Degeer. (See Neumann, 1906.)
Nirmus.	Nitzsch, Germar's Magazin, iii, 1818, p. 291 (type, N. discocephalus Nitzsch), nec Hermann, 1804, = Degeeriella Neumann.
Nitzschia.	Denny, Monographia Anoplurorum, 1842, p. 230, nec Baer, 1827, = Dennyus Neumann.
On cophorus.	Rudow, Zeit. f. d. ges. Nat., xxxv, 1870, p. 475, = Trabeculus Rudow.
On cophorus.	Piaget, Les Pédiculines, Supplement, 1885, p. 35, nec Rudow, 1870, = Strigiphilus Mjöberg, Rallicola Johnston and Harrison, Parricola and Paroncophorus Harrison.
Ornicholax.	Carriker, <i>Univ. Studies</i> , Nebraska, iii, 1903, p. 29. Type, <i>O. robustus</i> Carriker.
Ornithobius.	Denny, Monographia Anoplurorum, 1842, p. 183. Type, O. cygni Linné.
Ornith onomus.	Neumann, Parasites et Maladies parasitaires des Oiseaux domestiques, Paris, 1909, p. 9, nom. nov. for Ornithobius Denny, = Ornithobius Denny. (See Johnston and Harrison, 1911.)
Oxylipeurus.	Mjöberg, Arkiv f. Zoologi, vi, 1910, p. 91 (type, Lipeurus inaequalis Piaget), = Lipeurus Nitzsch. (See p. 26.)
Paragoniocotes.	Cummings, Ann. Mag. Nat. Hist., xvii, 1916, p. 102. Type, P. gripocephalus Cummings.
Paraheterodoxus.	Harrison and Johnston, <i>Parasitology</i> , viii, 1915, p. 356. Type, <i>P. insignis</i> Harrison and Johnston.
Paroncophorus.	Harrison, nom. nov. for species of Oncophorus Piaget (nec Rudow) not removed to Rallicola, Parricola, and Strigiphilus. Type, P. cephalotes Nitzsch. (See p. 127.)
Parricola.	Harrison, <i>Parasitology</i> , viii, 1915, p. 90. Type, <i>P. sulcata</i> Piaget.
Pectinopygus.	Mjöberg, Arkiv f. Zoologi, vi, 1910, p. 95. Type, P. bassanae O. Fabr.
Pediculus.	(partim) Linné, Systema Naturae, 10th edition, 1758.
Pelmatocerandra.	Enderlein, Deutsche Südpolar-Expedition, 1909, p. 449. Type, P. setosa Giebel.
Philandesia.	Kellogg and Nakayama, Ent. News, 1914, p. 198. Type, P. townsendi Kellogg and Nakayama.
$Philandria. \  \  $	Kellogg, American Naturalist, xlviii, 1914, p 275, = Philandesia Kellogg and Nakayama.

Kellogg, Biol. Bull., v, 1903, p. 87. Type, P. becki

Philoceanus.

Strongylocotes.

Taschenbergiella.

Taschenbergius.

Kellogg. "Nitzsch." Quoted in Stephens, Syst. Cat. Brit. Philopedon. Ins., 1829, p. 330, for Philopterus Nitzsch. Nitzsch, Germar's Magazin, iii, 1818, p. 288. Philopterus. Type, P. ocellatus Scopoli. Paine, Psyche, xxi, 1914, p. 23, nom. nov. for Ancistrocephalus Paine, nec Monticelli. Type, Physconella. P. kelloggi Paine. Nitzsch, Germar's Magazin, iii, 1818, p. 302 (type, Physostomum. P. nitidissimum Nitzsch, = R. fringillae Degeer), = Ricinus Degeer. Piagetia. Picaglia, Atti d. Soc. Nat. Modena. Rend. d. Adun., ii, 1884, p. 104 (type, P. ragazzii Picaglia), nec Ritsema, 1874, = Tetrophthalmus Grosse. Piagetiella. Neumann, Bull. Soc. Zool. France, xx, 1906, p. 59, nom. nov. for Piagetia Picaglia, nec Ritsema, = Tetrophthalmus Grosse. Pseudomenopon. Mjöberg, Arkiv f. Zoologi, vi, 1910, p. 50. P. tridens Nitzsch. Pseudonirmus. Mjöberg, Arkiv f. Zoologi, vi, 1910, p. 50 (type, Degeeriella charcoti Neumann), = Esthiopterum Harrison. (See p. 26.) Psittaconirmus. Harrison, Parasitology, vii, 1915, p. 402. Type, P. australis Harrison. Johnston and Harrison, Proc. Linn. Soc. N. S. Rallicola. Wales, xxxvi, 1911, p. 324. Type, R. attenuata Nitzsch. Rhopaloceras. Taschenberg, Nova Acta, Halle, xliv, 1882, p. 46. Type, Goniodes aliceps Nitzsch. Degeer, Mémoires pour servir à l'histoire des insectes, Ricinus. vii, 1778, p. 69. Type, R. fringillae Degeer. Ricinus. Enderlein, Deutsche Südpolar-Expedition, 1909,

p. 447, nec Degeer, = Degeeriella Neumann.

Somaphantus.

Paine, Smithsonian Misc. Coll., lxi, No. 23, 1914,

p. 1. Type, S. lusius Paine.

Strigiphilus.

Mjöberg, Arkiv f. Zoclogi, vi, 1910, p. 132. Type,
S. heterocerus Nitzsch.

Taschenberg, Nova Acta, Halle, xliv, 1882, p. 54. Type, Goniodes complanatus Piaget.

Neumann, Deux. Exp. Ant. Française, 1913, nom. nov. for Taschenbergius Neumann, 1906, nec Schmiedeknecht, 1888, = Docophoroides Giglioli.

Neumann, Bull. Soc. Zool. France, xx, 1906, p. 59, nom. nov. for Eurymetopus Taschenberg, 1882, nec Schönherr, 1840, = Docophoroides Giglioli.

Tetrophthalmus.	Grosse, Zeit. f. wiss. Zool., xlii, 1885, p. 534. Type, T. chilensis Grosse.
Thricodectes.	Bezzi, Rev. Ital. Sci. Nat., xiii, 1893, p. 97, = Tri- chodectes.
Trabeculus.	Rudow, Zeit. f. d. ges. Nat., xxvii, 1866, p. 466. Type, T. schillingi Rudow.
Trichodectes.	Nitzsch, Germar's Magazin, iii, 1818, p. 294. Type, T. canis Degeer.
Trichophilopterus.	Stobbe, Ent. Rundschau, xxx, 1913, p. 105. Type, T. babakotophilus Stobbe.
Trimenopon.	Cummings, Bull. Ent. Research, iv, 1913, p. 39. Type, T. jenningsi Kellogg and Paine.
Trinotion.	Perry, Proc. Lit. Phil. Soc. Liverpool, xxx, 1876, p. lxxx, for Trinoton Nitzsch.
Trinoton.	Nitzsch, Germar's Mazazin, iii, 1818, p. 300. Type, T. conspurcatum Nitzsch.

Trinotum. Burmeister, Handbuch der Entomologie, ii, 1838, p. 440, emendation of Trinoton Nitzsch.

**Trochiloecetes.** Paine and Mann, Psyche, xx, 1913, p. 21. Type, T. prominens Kellogg and Chapman.

#### IV.

#### SCHEME OF CLASSIFICATION.

The classification adopted must be looked upon as provisional. My unpublished work convinces me of the very close relationship between the biting and sucking lice, which has already been foreshadowed by Börner, Cholodkowsky, Fulmek and others, so I reduce the Mallophaga to the level of a Sub-order, retaining the names of Kellogg's sub-orders for the two super-families into which the group is clearly differentiated. The Amblycera I divide into six equivalent families, Boopidae, Trimenoponidae, Gyropidae, Menoponidae, Laemobothriidae, and Ricinidae; the Ischnocera into three, Trichodectidae, Nesiotinidae and Philopteridae, the last of which I again divide into a number of sub-families. As long as many genera still enclose a vast number of heterogeneous forms, it is not possible to make a satisfactory classification. But I have for the present left the large genera alone, preferring to make this list a basis for future revisional work rather than to impair its value by an attempt at revision now. I have rejected altogether three genera, Menacanthus Neumann, Oxylipeurus Mjöberg, and Pseudonirmus Mjöberg. The first of these comprises a heterogeneous assemblage, and, though it may be possible at a later date to

use it in the restricted form suggested by Waterston (1915, p. 12), I can see no advantage in adopting it at present. The second grades so completely into the ordinary circumfasciate *Lipeurus* that there is no justification for granting it generic rank. The type of the third is a petrel *Lipeurus*, close to *L. gurlti*. The name may have to be employed later, but I reject it for the present.

I have been obliged to introduce two new names. From Oncophorus Piaget, which is invalidated by Oncophorus Rudow, all the species, save two, have been removed to Rallicola, Parricola and Strigiphilus. For these two, O. cephalotes Nitzsch and O. latifrons Piaget, I propose a new name, Paroncophorus, with the former species as type. I have also removed the circumfasciate gallinaceous Lipeuri, which unfortunately include the type of the genus (Johnston and Harrison, 1911, p. 326), into the Goniodinae, and it becomes necessary to propose a new name for the balance of the genus. For this I propose Esthiopterum, with E. (Lipeurus) ebraeum Burmeister as type.

The names used for many of the genera will probably appear strange to a number of systematic workers. Justification for them will be found in the List of Generic Names, and in the papers of Neumann (1906) and Johnston and myself (1911). The attempt of Enderlein (1909, p. 447) to introduce the genus Ricinus Degcer as an equivalent for Nirmus Nitzsch requires to be dealt with. Neumann (1906) has designated as type of Ricinus Degeer the first species described by the latter, R. fringillae, which is the Physostomum irascens of Nitzsch, and has shown that Physostomum must give place to Ricinus. He admits that Nirmus Hermann is a synonym of Ricinus Degeer, points out that Nirmus Nitzsch is invalid, and proposes a new name Degeeriella. this procedure I am entirely in agreement. But Enderlein maintains that Nirmus Nitzsch is equivalent to Nirmus Hermann, a position wholly untenable, and bolsters up his case with a travesty of fact which surpasses any I have met before, even in the systematics of Mallophaga. He states that the third species, Ricinus cornicis, of Degeer is identical with Pediculus corvi-coracis L. (it will be noted that he does not distinguish the name of the species, which is corvi, from that of the host) and Nirmus varius Nitzsch, in Giebel, and that for this reason the Linnaean name must stand as the type of Ricinus, with the other two as synonyms. But P. corvi L. is founded on Redi's figure of Pulex corvi, which Nitzsch himself includes as a synonym of his Docophorus atratus; and R. cornicis Degeer is, upon his own quite recognisable figure, and upon the admission of Giebel, the same as Menopon mesoleucum Nitzsch. Consequently Enderlein arrives at the portentous conclusion that the Nitzschian species Docophorus atratus, Nirmus varius, and Menopon mesoleucum are identical. It need hardly be said that any conclusion based upon such a premiss does not demand serious consideration. Moreover, among the species included by Degcer in Ricinus, there is not a single species of what is now Degeriella.

#### Order ANOPLURA Leach.

(Sub-order i. Siphunculata Meinert.)

Sub-order ii. MALLOPHAGA Nitzsch.

Super-family i. Amblycera Kellogg.

### Family i. Boopidae Mjöberg.

Sub-family a. Boopinae Harrison and Johnston.

Genus 1. Boopia Piaget.

2. Heterodoxus Le Souëf and Bullen.

3. Paraheterodoxus Harrison and Johnston.

Sub-family b. Latumcephalinae Harrison and Johnston.

Genus 4. Latumcephalum Le Souëf.

### Family ii. Trimenoponidae Harrison.

Genus 5. Trimenopon Cummings.

6. Philandesia Kellogg and Nakayama.

## Family iii. Gyropidae Burmeister.

Genus 7. Gyropus Nitzsch.

8. Gliricola Mjöberg.

## Family iv. Menoponidae Mjöberg.

Sub-family c. Menoponinae Harrison.

Genus 9. Menopon Nitzsch.

10. Colpocephalum Nitzsch.

11. Eomenopon Harrison.

12. Myrsidea Waterston.

13. Somaphantus Paine.

14. Machaerilaemus Harrison.

15. Tetrophthalmus Grosse.

16. Dennyus Neumann.

17. Trinoton Nitzsch.

18. Eureum Nitzseh.

19. Pseudomenopon Mjöberg.

Sub-family d. Ancistroninae Harrison.

Genus 20. Ancistrona Westwood.

Family v. Laemobothriidae Mjöberg.

Genus 21. Laemobothrion Nitzsch.

Family vi. Ricinidae Neumann.

Genus 22. Ricinus Degeer.

23. Trochiloecetes Paine and Mann.

Super-family ii. Ischnocera Kellogg.

Family vii. Trichodectidae Burmeister.

Genus 24. Trichodectes Nitzsch.

25. Damalinia Mjöberg.

26. Eutrichophilus Mjöberg.

27. Eurytrichodectes Stobbe.

28. Trichophilopterus Stobbe.

Family viii. Nesiotinidae Harrison.

Genus 29. Nesiotinus Kellogg.

Family ix. Philopteridae Burmeister.

Sub-family e. Goniodinae [Mjöberg].

Genus 30. Goniodes Nitzsch.

31. Goniocotes Burmeister.

32. Lipeurus Nitzsch.

33. Austrogoniodes Harrison.

34. Physconella Paine.

35. Kelloggia Carriker.

36. Ornicholax Carriker.

## Sub-family f. Philopterinae Harrison.

Genus 37. Philopterus Nitzsch.

38. Degeeriella Neumann.

39. Psittaconirmus Harrison.

40. Rallicola Johnston and Harrison.

41. Parricola Harrison.

42. Aptericola Harrison.

43. Paroncophorus Harrison.

44. Strigiphilus Mjöberg.

45. Paragoniocotes Cummings.

Sub-family g. Acidoproctinae Harrison.

Genus 46. Acidoproctus Piaget.

47. Ornithobius Denny.

48. Bothriometopus Taschenberg.

49. Heteroproctus Harrison.

Sub-family h. Esthiopterinae Harrison.

Genus 50. Esthiopterum Harrison.

51. Pectinopygus Mjöberg.

52. Pelmatocerandra Enderlein.

53. Philoceanus Kellogg.

Sub-family i. Giebeliinae [Waterston].

Genus 54. Giebelia Kellogg.

55. Trabeculus Rudow.

Sub-family j. Docophoroidinae Harrison.

Genus 56. Docophoroides Giglioli.

V.

LIST OF SPECIES AND SUBSPECIES, VALID AND INVALID, OF MALLOPHAGA.

The numbers are in two series, heavy numerals indicating valid species, Italic numerals synonyms and other invalid names. The species names are in three types; heavy (Clarendon) for valid species; ordinary Roman for species now transferred to other genera; and Italic for synonyms and other invalid names. The synonyms of any species are indicated by numbers included in square brackets at the end of the reference.

## Order ANOPLURA Leach.

Sub-order MALLOPHAGA Nitzsch.

Super-family i. Amblycera Kellogg.

Family i. Boopidae Mjöberg.

Sub-family a. Boopinae Harrison and Johnston.

Genus 1. Boopia Piaget.

- 1. bettongia Le Souëf, Vict. Nat., xix, 1902, p. 50, f. 2. (Bettongia rufescens.)
- 2. grandis Piaget, Pédiculines, Suppl., 1885, p. 154, Pl. 16, f. 8. (Macropus rufus.)

- 3. minuta Le Souëf, Vict. Nat., xix, 1902, p. 51, f. 3. (Macropus dorsalis.)
- 4. notafusca Le Souëf, Vict. Nat., xix, 1902, p. 50, f. 1. (Macropus ualabatus.)
- 5. peregrina Mjöberg, Ark. Zool., vi, 1910, p. 21, Pl. 4, f. 9. (Lutra pruneri.)
- 6. phanerocerata Harr. & Johnst., Parasitology, viii, 1915, p. 348, f. 7.
  (Perameles nasuta.)
- 7. spinosa Harrison and Johnston, Parasitology, viii, 1915, p. 350, f. 9. (Macropus ualabatus.)
- 8. tarsata Piaget, Pédiculines, 1880, p. 599, Pl. 50, f. 1. (Phascolomys fossor.)
- 9. uncinata Harrison and Johnston, *Parasitology*, viii, 1915, p. 349, f. 8. (*Dasyurus maculatus.*)

#### Genus 2. Heterodoxus Le Souëf and Bullen.

- 1. armiferus Paine, Ent. News, 1912, p. 362, f. A. (Canis familiaris) = longitarsus Piaget.
- 1. brevispinosus Harrison and Johnston, Parasitology, viii, 1915, p. 355, f. 12.

### (Phascologale flavipes.)

- 2. longitarsus Piaget, Pédiculines, 1880, p. 504, Pl. 41, f. 7. (Macropus giganteus) [1, 2, 3, 4].
- macropus Le Souëf and Bullen, Vict. Nat., xviii, 1902, p. 159, f. 11.
   (Macropus spp.) = longitarsus Piaget.
- 3. spiniger Enderlein, Jenais. Denks., xiv, 1909, p. 80. (Canis familiaris) = longitarsus Piaget.
- 4. spinigerum [Enderlein] Neumann, Arch. Parasit., 1912, p. 364, f. 12 (Canis familiaris) = longitarsus Piaget.

#### Genus 3. Paraheterodoxus Harrison and Johnston.

1. insignis Harrison and Johnston, *Parasitology*, viii, 1915, p 357, f. 13, 14.

#### (Aepyprymnus rufescens.)

# Sub-family b. Latumcephalinae Harrison and Johnston.

Genus 4. Latumcephalum Le Souëf.

- 1. lesouëfi Harr. & Johnst., Parasitology, viii, 1915, p. 343, f. 2, 3. (Macropus ualabatus.)
- 2. macropus Le Souëf, Vict. Nat. xix, 1902, p. 51, f. 4. (Macropus dorsalis.)

### Family ii. Trimenoponidae Harrison.

### Genus 5. Trimenopon Cummings.

- 1 echinoderma Cummings Bull. Ent. Res., 1913, p. 40, f. 4.

  (Cavia aperca) = jenningsi Kellogg and Paine.
- 1. jenningsi Kellogg and Paine, Ent. News, 1910, p. 461, fig. 1 (Cavia cobaya) [1].

## Genus 6. Philandesia Kellogg and Nakayama.

1. townsendi Kellogg and Nakayama, Ent. News, 1914, p. 199, fig. 1. (Lagidium peruanum.)

### Family iii. Gyropidae Burmeister.

#### Genus 7. Gyropus Nitzsch.

- 1. alpinus Kellogg and Nakayama, Ent. News, 1914, p. 196, Pl. 8. (Lagidium peruanum.)
- 2. amplexans Neumann, Bull. Soc. Zool. Fr., 1912, p. 224, f. 11. (Dasyprocta aguti.)
- 1. bicaudatus Paine, see Gliricola.
- 3. decurtatus Neumann, Bull. Soc. Zool. Fr., 1912, p. 216, f. 3. (Dactylomys amblyonys.)
- 4. dicotylis Macalister, Proc. Zool. Soc. Lond., 1869, p. 420. (Dicotyles torquatus.)
- **5. forficulatus** Neumann, *Bull. Soc. Zool. Fr.*, 1912, p. 220, f. 6–8. (*Ctenomy*s sp.)
- 2. gracilis Nitzsch, see Gliricola.
- 6. hispidus Nitzsch in Burmeister, *Handbuch*, ii, 1838, p. 443. (*Bradypus tridactylus.*)
- 7. lagotis Gervais in Gay, Hist. Chile, 1849, p. 103. (Lagotis cuvieri.)
- 8. lineatus Neumann, Bull. Soc. Zool. Fr., 1912, p. 218, f. 4, 5. (Kerodon moco.)
- 9. longicollis Nitzsch in Burmeister, Handbuch, ii, 1838, p. 443. (Dasyprocta aguti.)
- 10. longus Neumann, Bull. Soc. Zool. Fr., 1912, p. 222, f. 9, 10. (Abrocoma bennetti.)
- 11. ovalis Nitzsch in Burmeister, Handbuch, ii, 1838, p. 443. (Cavia cobaya.)
- 3. perfoliatus Neumann, sec Gliricola.
- 4. porcelli Linné, see Gliricola.

- 12. setosus Neumann, Arch. Parasit., xv, 1912, p. 372, f. 18. (Proechimys securus.)
- 13. turbinatus Piaget, Pédiculines, 1880, p. 612, Pl. 50, f. 7. (Arctomys marmotta.)

### Genus 8. Gliricola Mjöberg.

- 1. bicaudata Paine, Ent. News, xxiii, 1912, p. 441, fig. 3. (Cavia cutleri) = porcelli L.
- 2. bifurcata Olfers, De Vegetativis etc., 1816, p. 83. (Cavia cobaya) = porcelli L.
- 3. gracilis Nitzsch in Burmeister, Handbuch, ii, 1838, p. 443. (Cavia cobaya) = porcelli L.
- perfoliata Neumann, Bull. Soc. Zool. Fr., 1912, p. 216.
   (Kerodon moco.) Sub-species of porcelli L.
- porcelli Linné, Syst. Nat., 1758, p. 611.
   (Cavia cobaya) [1, 2, 3, 4].
- 4. saviae Schrank, Faun. Boic., 1803, p. 186. (Cavia cobaya) = porcelli L.

### Family iv. Menoponidae Mjöberg.

### Sub-family c. Menoponinae Harrison.

## Genus 9. Menopon Nitzsch.

- 1. abdominale Piaget, Pédiculines, 1880, p. 473, Pl. 36, f. 9. (Perdix (Coturnix) coturnix.)
- 2. abnorme Piaget, Pédiculines, 1880, p. 481, Pl. 38, f. 8. (Gallinula haematopus (frontata).)
- 3. acuticeps Piaget, Pédiculines, 1880, p. 422, Pl. 33, f. 7. (Sittace (Ara) ararauna.)
- 4. acutovulvatum Piaget, Tijd. v. Ent., xxiv, 1881, p. 5, Pl. 1, f. 4
  (Buceros (Anthracoceros) malabaricus.)
- 5. aegialitidis Durrant, Ohio Nat., vi, 1906, p. 529, f. 1 c. (Aegialitis vocifera.)
- 6. affine Piaget, *Tijd. v. Ent.*, xxxiii, 1888, p. 248, Pl. 10, f. 3. (*Diomedea exulans.*)
- 7. africanum Kellogg and Paine, Bull. Ent. Res., 1911, p. 149, Pl. 5, f. 3. (Plectropterus gambensis.)
- 8. agile Nitzsch, Zeit. f. ges. Nat., 1866, p. 120. (Sylvia (Phoenicurus) titys.)
- 9. alaskense Kell. & Chap., Journ. N. Y. Ent. Soc., x, 1902, p. 27, Pl. 3, f. 5. (Cinclus mexicanus, Pinicola enucleator.)

- 10. alaudae Schrank, Beyträge, 1776, p. 115, f. 5, 6. (Alauda arvensis) [92].
- 11. albemarlei Kell. & Kuw., Proc. Wash. Acad. Sci., iv, 1902, p. 488, Pl. 31, f. 5. (Camarhynchus sp., Geospiza sp.)
- 12. albescens Piaget, Pédiculines, 1880, p. 491, Pl. 41, f. 4. (Sula serrator.)
- 13. albicans Piaget, Pédiculines, 1880, p. 463, Pl. 38, f. 3. (Euplocamus (Gennaeus) horsfieldi.)
- 1. albiceps Piaget, see Myrsidea.
- 14. albidum Giebel, Ins. Epiz., 1874, p. 280. (Neophron percnopterus.)
- 15. albipes Giebel, Zeit. f. ges. Nat., xlvii, 1876, p. 250. (Lobivanellus albiceps.)
- 2. albipes Piaget, see Myrsidea.
- 16. albofasciatum Piaget, Pédiculines, 1880, p. 496, Pl. 40, f. 6. (Anas (Tadorna) tadorna.)
- 17. alternatum Osborn, *Ohio Nat.*, ii, 1902, p. 175, Pl. 11, f. 1. (*Cathartes aura.*)
- 18. ambiguum Nitzsch in Giebel, Ins. Epiz., 1874, p. 295. (Numenius phaeopus.)
- 3. americanum Kellogg, see Myrsidea.
- 4. anaspilum Nitzsch, Zeit. f. ges. Nat., 1866, p. 119. (Corvus corax) = gonophaeum Nitzsch.
- 5. anathorax Nitzsch, see Myrsidea.
- 19. annulatum Giebel, Ins. Epiz., 1874, p. 285. (Passer domesticus.)
- 6. anseris Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 309. (Anser cinereus), Nom. nud.
- 20. antennatum Kellogg and Paine, Bull. Ent. Res., 1911, p. 150, Pl. 5, f. 1. (Numida mitrata.)
- 21. appendiculatum Piaget, Pédiculines, 1880, p. 473, Pl. 36, f. 8. (Perdix cinerea. ? straggler from a hornbill.)
- 22. arctifasciatum Piaget, Pédiculines, Suppl., 1885, p. 112, Pl. 12, f. 4. (Rhynchotus rufescens.)
- 7. argentinum Kellogg, see Myrsidea.
- 23. atrofulvum Piaget, Pédiculines, 1880, p. 483, Pl. 39, f. 2. (Platalea leucorodia.)
- 24. aurifasciatum Kellogg, New Mallophaga, iii, 1899, p. 43, Pl. 4, f. 5. (Fregata aquila.)
- **24** a. **balfouri** Waterston, Ent. Month. Mag., 1915, p. 15, f. 1, 2 a. (Rhamphastos sp. ? tocard).

- 25. becki Kellogg, Trans. Amer. Ent. Soc., xxxii, 1907, p. 322. (Phaethon aethereus.)
- 26. biaculeatum Picaglia, Atti Soc. Ital. Sc. Nat., xxviii, 1885, p. 5. (Estrilda sp.)
- 27. bifurcatum Piaget, Pédiculines, 1880, p. 423, Pl. 35, f. 10. (Psittacus erithacus.)
- 8. biseriatum Piaget, Pédiculines, 1880, p. 469, Pl. 37, f. 2. (various Galli) = stramineum Nitzsch.
- 28. brachygaster Giebel, Ins. Epiz., 1874, p. 293. (Crypturus tao.)
- 9. breviceps Giebel, Ins. Epiz., 1874, p. 279.
  (Sarcorhamphus papa) = cathartaepapae N.
- 29. brevicolle Piaget, Pédiculines, Suppl., 1885, p. 108, Pl. 11, f. 9. (Thinocorus rumicivorus.)
- 30. brevifimbriatum Piaget, Pédiculines, 1880, p. 499, Pl. 41, f. 1. (Fulmarus glacialis.)
- 31. brevipalpe Piaget, Pédiculines, 1880, p. 498, Pl. 40, f. 5. (Phalacrocorax carbo.)
- 32. brevipes Piaget, Pédiculines, Suppl., 1885, p. 110, Pl. 12, f. 1. (Crossoptilon manchuricum.)
- 33. brevithoracicum Piaget, Pédiculines, 1880, p. 495, Pl. 41, f. 2. (Cygnus spp.)
- 10. breviventre Piaget, see Myrsidea.
- 11. brunneum Nitzsch, see Myrsidea.
- 34. bucerotis Kellogg, Schwed. Exp. Kilimandjaro, p. 54, Pl. 7, f. 12. (Bycanistes cristatus.)
- 12. camelinum Nitzsch in Giebel, Ins. Epiz., 1874, p. 288, Pl. 15, f. 3. (Nucifraga caryocatactes)=coarctatum Scopoli.
- 35. carduelis Denny, Anoplur. Brit., 1842, p. 228, Pl. 20, f. 7. (Fringilla carduelis.)
- 13. castaneum Piaget, see Myrsidea.
- 36. cathartaepapae Nitzsch in Giebel, Zeit. f. ges. Nat., 1861, p. 518. (Sarcorhamphus papa) [9].
- 37. caudatum Giebel, Zeit. f. ges. Nat., xlvii, 1876, p. 529. (Galbula ruflcauda.)
- 14. chavariae Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 391. (Palamedea (Chauna) chavaria), Nom. nud.
- 15. cimicoides Nitzsch, see Eureum.
- 16. cinereum Piaget, see Pseudomenopon.
- 38. cingulatum Piaget, Pédiculines, Suppl., 1885, p. 91, Pl. 9, f. 9. (Polyborus vulgaris (plancus).)

- 39. circinatum Piaget, Tijd. v. Ent., xxxiii, 1888, p. 249, Pl. 10, f. 4. (Stercorarius pomarinus.)
- 40. citrinellae Denny, Anoplur. Brit., 1842, p. 220, Pl. 21, f. 3. (Emberiza citrinella, Motacilla alba) [108].
- 17. citrinum Nitzsch in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 303. (Sturnus vulgaris), Nom. nud.
- **41.** coarctatum Scopoli, Ent. Carn., 1763, p. 382. (Lanius collurio) [12, 18, 38].
- 42. colaptis Durrant, Ohio Nat., viii, 1908, p. 355, f. 1 h. (Colaptes auratus.)
- 18. collurionis Schrank, Faun. Boic., 1803, p. 187.
  (Lanius collurio) = coarctatum Scopoli.
- 43. commissum Neumann, Bull. Soc. Toulouse, xxiv, 1890, p. 66. (Microglossus alecto (aterrimus).)
- 19. concretum Piaget, see Myrsidea.
- 20. consanguineum Piaget, see Tetrophthalmus.
- 21. consimile Piaget, see Myrsidea.
- 44. coracopsis Mjöberg, Arkiv f. Zool., vi, 1910, p. 30. (Coracopsis obscura (vasa).)
- 22. cornicis Degeer, see Myrsidea.
- 45. cornutum Schömmer, Mallophagen, 1913, p. 64. (Gallus domesticus (gallus).)
- 46. corporosum Kell. & Kuw., P. Acad. Nat. Sc. Phil., 1900, p. 158, Pl. 7, f. 5. (Crymophilus fulicarius.)
- 23. costaricense Carriker, see Pseudomenopon.
- 47. cracis Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 391. (Crax carunculata, C. rubirostris) [64].
- 48. crassiceps Piaget, Pédiculines, Suppl., 1885, p. 92, Pl. 10, f. 1. (Pulsatrix torquata (perspicillata).)
- 24. crassipes Piaget, see Myrsidea.
- 49. crocatum Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 392. (Numenius arquata, etc.)
- 50. cryptostigmation Nitzsch in Gb., Zeit. f. ges. Nat., xviii, 1861, p. 529. (Strix passerina = Athene noctua.)
- 25. cuculi Fabricius, Syst. Ent., 1775, p. 807. (Cuculus canorus) = fasciatus Scop.
- 26. cucullare Nitzsch, see Myrsidea.
- 27. cucullare Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 391, nec Nitzsch 1838. (Coracias garrula) = virgo Gb.
- **51. cursorius** Giebel, *Ins. Epiz.*, 1874, p. 296.

(Cursorius isabellinus (gallicus).)

- curuccae Schrank, Beyträge, 1776, p. 113.
   (Motacilla (Sylvia) curucca) [78, 118].
- 28. cygni Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 309. (Cygnus olor.) Nom. nud.
- 29. cyrtostigmum Kellogg and Chapman, see Myrsidea.
- 53. decoratum Kellogg, New Mallophaga ii, 1896, p. 526, Pl. 72, f. 2. (Elanus leucurus.)
- 54. delicatulum Piaget, Pédiculines, 1880, p. 448, Pl. 42, f. 7. (Pycnonotus (Trachycomus) ochrocephalus.)
- 55. difficile Carriker, Univ. Studies, iii, 1903, p. 188, Pl. 8, f. 1. (Buarremon brunneinuchus.)
- 30. diomedeae Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 309.

  Nom. nud.
- 31. dissimile Kellogg, see Myrsidea.
- 56. distinctum Kell. & Chap., New Mallophaga iii, 1899, p. 126, Pl. 8, f. 7. (Mylarchus cinerascens.)
- 57. dubium Piaget, Pédiculines, 1880, p. 452, Pl. 36, f. 6. (Edolius longus=Buchanga atra.)
- 58. elongatum Piaget, Pédiculines, Suppl., 1885, p. 93, Pl. 10, f. 2. (Pulsatrix torquata.)
- eulasium Kellogg, Schwed. Exp. Kilimandjaro, 1910, p. 54, Pl. 7,
   f. 11. (Phalacrocorax africanus.)
- 60. eurum Piaget, Pédiculines, 1880, p. 502, Pl. 40, f. 3. (Carbo (Phalacrocorax) javanicus.)
- 61. eurygaster Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 393. (Halieus brasiliensis=Phalacrocorax vigua.)
- 62. eurysternum Nitzsch in Burmeister, Handbuch, ii, 1838, p. 439. (Pica spp.)
- 63. exile Nitzsch, Zeit. f. ges. Nat., xxvii, 1866, p. 121. (Sylvia (Saxicola) oenanthe.)
- **64.** expansum Osborn, Bull. 5, Div. Ent., 1896, p. 245, Pl. 2, f. j. (Dolichonyx oryzivorus.)
- 31a. excanguis Paine and Mann, see Myrsidea.
- 65. extraneum Piaget, Pédiculines, 1880, p. 506, Pl. 42, f. 2. (Cavia cobaya, straggler.)
- 66. \*fasciaferum nom. nov. for fasciatum Rudow, 1869, nec Scopoli, 1763. (Gypagus (Sarcorhamphus) papa) [32].
- 67. fasciatum Scopoli, Ent. Carn., 1763, p. 383. (Cuculus canorus) [25, 97, 98].
- 32. fasciatum Rudow, Zeit. f. ges. Nat., xxxiv, 1869, p. 403, nec Scopoli, 1763 = fasciaferum Harrison.

- **68. femorale** Piaget, *Pédiculines*, 1880, p. 484, Pl. 39, f. 8. (*Platalea leucorodia*. A gallinaceous straggler.)
- **69. fertile** Nitzsch, Zeit. f. ges. Nat., xxvii, 1866, p. 121. (Upupa epops.)
- 33. flavescens Piaget, see Myrsidea.
- 34. flavidum Piaget, see Myrsidea.
- 35. forcipatum Nitzsch in Giebel, Ins. Epiz., 1874, p. 289, Pl. 15, f. 7, 8. No description. Types lost. Discard.

#### (Buceros rhinocerus.)

- 36. fringillae-montanae Giebel, Ins. Epiz., 1874, p. 285. Nom. nud.
- 70. fulvofasciatum Piaget, Pédiculines, 1880, p. 417, Pl. 33, f. 3. (Buteo vulgaris, etc.)
- 71. fulvomaculatum Denny, Anoplur. Brit., 1842, p. 218, Pl. 21, f. 6. (Perdix (Coturnix) coturnix, Phasianus colchicus) [66, 102].
- 37. funereum Kellogg and Chapman, see Myrsidea.
- 38. fuscocinctum Denny, Anoplur. Brit., 1842, p. 219, Pl. 21, f. 4. (Lanius collurio) = coarctatum Scop.
- 72. fuscofasciatum Piaget, Pédiculines, 1880, p. 492, Pl. 40, f. 9. (Lestris, Sterna, etc.)
- 73. fuscomarginatum Osborn, Bull. 5, Div. of Ent., 1896, p. 245. (Turdus minor=Hylocichla fuscescens.)
- 74. fuscum Carriker, Univ. Neb. Stud., 1903, p. 187. (Rhamphocœlus passerinii.)
- 75. galapagense Kell. & Kuw., P. Wash. Acad. Sc., iv, 1902, p. 487, Pl. 31, f. 4. (Geospiza conirostris, Nesomimus sp.)
- 76. gallinae Linné, Syst. Nat., 1758, p. 613.

  (Gallus domesticus, (gallus).) [87, 129.]
- 77. germanum Piaget, Pédiculines, 1880, p. 450, Pl. 36, f. 1. (Pogonorhynchus rolleti.)
- **78.** giganteum Denny, Anoplur. Brit., 1842, p. 225, Pl. 21, f. 2. (Columba oenas et al.) [60].
- 39. giganteum Rudow, Zeit. f. ges. Nat., xxxiv, 1869, p. 403, nec Denny, 1842 = pustulosum Nitzsch.
- 40. gonophaeum Nitzsch, see Myrsidea.
- 79. gracile Piaget, Pédiculines, 1880, p. 482, Pl. 40, f. 1. (Porphyrio smaragdinus.)
- 41. grandiceps Piaget, see Myrsidea.
- 80. griseum Piaget, Pédiculines, Suppl., 1885, Pl. 11, f. 3. (Paradisea papuana.)
- 42. gruis Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 309. Nom. nud.
- **81.** gryphus Giebel, *Ins. Epiz.*, 1874, p. 279.

(Sarcorhamphus (Vultur) gryphus.)

- 82. hamatum Neumann, Arch. Parasit., xv, 1912, p. 365, f. 13. (Host unknown.)
- 83. hawaiiense Kell. & Chap., Journ. N. Y. Ent. Soc., x, 1902, p. 165, Pl. 15, f. 2. (Chlorodrepanis virens.)
- 43. heterocephalum Nitzsch, see Colpocephalum.
- 84. hilense Kell. & Chap., Journ. N. Y. Ent. Soc., x, 1902, p. 166, Pl. 15, f. 4. (Vestiaria coccinea.)
- 85. hirsutum Carriker and Shull, Ent. News, xxi, 1910, p. 55, Pl. 5, f. 3. (Dryobates pubescens.)
- 44. hirundinis Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 305. Nom. nud.
- 86. icterum Nitzsch in Burmeister, Handbuch, ii. 1838, p. 440.

  (Scolopax rusticola.) M. icterum Denny,

  Anoplur. Brit., 1842, p. 228, Pl. 20, f. 8, is a
  different species, fide Piaget, 1880, p. 479.
- 45. imbricatum Neumann, see Myrsidea.
- 87. impar Piaget, Pédiculines, Suppl., 1885, p. 94, Pl. 10, f. 4. (Psittacus timneh.)
- 46. impar Kellogg, see Tetrophthalmus.
- 88. inaequale Piaget, *Pédiculines*, 1880, p. 443, Pl. 35, f. 1. (*Lanius* spp.)
- 47. incertum Kellogg, see Myrsidea.
- 89. incisum Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 391. (No host. ? Coracias garrula L. H.)
- 48. incompositum Kellogg and Chapman, see Tetrophthalmus.
- 90. indistinctum Kellogg, New Mallophaga i, 1896, p. 157, Pl. 14, f. 6, 7. (Recurvirostra americana.)
- 49. indivisum Nitzsch, see Myrsidea.
- **91.** infrequens Kellogg, New Mallophaga i, 1896, p. 161, Pl. 15, f. 5. (*Larus* spp.)
- 92. infumatum Piaget, Pédiculines, Suppl., 1885, p. 106, Pl. 11, f. 7.
  (Dacelo gigas. Locality given as Madagascar.
  Either host or locality is in error, as D. gigas is confined to Australia. L. H.)
- 50. insolens Kellogg, see Pseudomenopon.
- 51. insolitum Kellogg and Paine, see Myrsidea.
- 93. insulsum Piaget, *Pédiculines*, 1880, p. 451, Pl. 35, f. 5. (*Psitta* sp. ? = *Pitta*.)
- 52. integrum Piaget, see Myrsidea.
- 53. intermedium Piaget, see Myrsidea.
- 54. intermedium Piaget, Pédiculines, 1880, p. 497, Pl. 40, f. 4 (nec p. 430). (Fregata minor) = intermissum Harrison.

- 94. \*intermissum nom. nov. for intermedium Piaget, 1880, p. 497, nec p. 430. (Fregata minor) [54].
- 95. interpolatum Piaget, Pédiculines, 1880, p. 493, Pl. 42, f. 1. (Host unknown. ? A gull. L. H.)
- 55. interruptum Osborn, see Myrsidea.
- 56. invadens Kellogg and Chapman, see Myrsidea.
- **96.** irrumpens Kellogg and Chapman, New Mallophaga iii, 1899, p. 117, Pl. 8, f. 1. (*Diomedea albatrus.*)
- 57. isostomum Nitzsch, see Myrsidea.
- 58. jenningsi Kellogg and Paine, see Trimenopon.
- 97. kea Kellogg, Psyche, 1906, p. 122. Sub-sp. fulvofasciatum P. (Nestor notabilis.)
- 98. kuwani Kell. & Chap., Journ. N. Y. Ent. Soc., x, 1902, p. 26, Pl. 3, f. 4. (Phalacrocorax penicillatus.)
- **99.** lagopi Grube, Sibirischer Reise, 1851, p. 491, Pl. 31, f. 7. (Lagopus alpinus.)
- 58 a. lamprotornis Gurlt, Arch.f. Naturgesch., xxiii, 1857, p. 309 Nom. nud.
- 59. laticorpus Carriker, see Machaerilaemus.
- 100. latifasciatum Piaget, Pédiculines, 1880, p. 467, Pl. 38, f. 4. (Tetrao urogallus.)
- 101. lativulvatum Piaget, Pédiculines, 1880, p. 465, Pl. 37, f. 6. (Megapodius rubripes=Megacephalon maleo.)
- 60. latum Piaget, Pédiculines, 1880, p. 457, Pl. 37, f. 1. (Columba spp.) = M. giganteum Denny.
- 102. lemniscatum Enderlein, Deutsche Süd-polar Exp. Zool. ii, 1909, p. 456. (Larus dominicanus.)
- 103. leucoxanthum Nitzsch in Burmeister, Handbuch, ii, 1838, p. 440. (Anas (Nettium) crecca) [63].
- 61. linearis Kellogg, see Tetrophthalmus.
- 104. longicephalum Kellogg, New Mallophaga ii, 1896, p. 535, Pl. 13, f. 4. (Columba livia. Gallinaceous straggler. L. H.)
- 105. longipalpe Piaget, Pédiculines, 1880, p. 461, Pl. 38, f. 2. (Euplocamus melanotus=Gennaeus melanonotus.)
- 106. longipes Giebel, Ins. Epiz., 1874, p. 280.

(Strix bubo=Bubo ignavus.)

- (S. brachyotus) [73]=Asio accipitrinus.)
- 62. longitarsus Piaget, see Heterodoxus.
- 107. longithoracicum Piaget, Pédiculines, 1880, p. 500, Pl. 41, f. 5. (Priofinus cinereus.)
- **108.** longum Giebel, Ins. Epiz., 1874, p. 297.

 $(\textit{Grus communis} {=} \textit{Grus grus.})$ 

(G. pavonina=Balearica pavonina.)

- 109. loomisii Kellogg, New Mallophaga i, 1896, p. 162, Pl. 45, f. 6. (Oidemia deglandi.)
- 110. lucidum Rudow, Zeit. f. ges. Nat., xxxiv, 1869, p. 402. (Falco rufipes.)
- 63. lunarium Rudow, Zeit. f. ges. Nat., xxxiv, 1869, p. 402. (Anas (Oidemia) nigra)=M. leucoxanthum Nitzsch.
- 111. lutescens Nitzsch in Burmeister, Handbuch, ii, 1838, p. 440. (Many Charadrifformes) [81].
- 112. macrocybe Carriker, Univ. Studies, iii, 1903, p. 181, Pl. 7, f. 2. (Buteo platypterus.)
- 64. macropus Giebel, Ins. Epiz., 1874, p. 294 = M. cracis Giebel. (Crax spp.)
- 113. maculipes Giebel, *Ins. Epiz.*, 1874, p. 298. (*Tantalus loculator*) [125].
- 114. madagascariense Mjöberg, Arkiv f. Zool., vi, 1910, p. 34. (Scopus umbretta.)
- 115. maestum Kell. & Chap., New Mallophaga iii, 1899, p. 130, Pl. 9, f. 2. (Zonotrichia coronata, Melospiza fasciata.)
  - 65. majus Piaget, see Myrsidea.
  - 66. majus Piaget, Pédiculines, 1880, p. 462 (nec p. 441). (Lophophorus resplendens.)
  - 67. majus Piaget, Pédiculines, 1880, p. 471 (nec p. 441). (Perdix rubra=Caccabis rufa.)
  - 68. majus Piaget, Pédiculines, 1880, p. 480, see Pseudomenopon.
- 69. majus Carriker, Univ. Nebr. Stud. iii, 1903, p. 187.

  (Merula grayi, Tanagra (Thraupis) cana.)
- 70. malleus Nitzsch, see Eureum.
- 116. mammillatum Piaget, Pédiculines, Suppl., 1885, p. 114, Pl. 12, f. 5. (Theristicus caudatus.)
  - 71. melanorum Kellogg, see Myrsidea.
  - 72. meleagridis Panzer, Faun. Ins. Germ., 1793, p. 51, f. 20 (nec Ped. meleagridis Linn. 1758, p. 613) = M. stramineum Nitzsch.
- 117. menadense Piaget, Pédiculines, 1880, p. 458, Pl. 42, f. 8. (Columba (Turacoena) menadensis.)
- 118. meniscus Piaget, Pédiculines, 1880, p. 447, Pl. 36, f. 7. (Emberiza (Calcarius) lapponica.)
- 119. menura Le Souëf and Bullen, Vict. Nat., xviii, 1902, p. 158, f. 9. (Menura superba.)
- 120. meridionale Carriker, Univ. Neb. Stud., iii, 1903, p. 182. (Melanerpes aurifrons, Odontophorus leucolaemus.)
  - 73. merum Piaget, see Myrsidea.
- 74. mesoleucum Nitzsch, see Myrsidea.

- 121. meyeri Giebel, Ins. Epiz., 1874, p. 296.
  - (Limosa rufa (lapponica).)
- 122. micrandum Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 392. (Recurvirostra avocetta.)
- 123. minus Piaget, *Pédiculines*, 1880, p. 418. (Accipiter nisus.)
  - 75. minus Piaget, Pédiculines, 1880, p. 420. (Strix (Athene) noctus.)
  - 76. minus Piaget, Pédiculines, Suppl., 1885, p. 101. (Lamprocolius auratus.)
  - 77. minusculum Piaget, see Myrsidea.
  - 78. minutum Nitzsch in Giebel, Ins. Epiz., 1874, p. 286, Pl. 15, f. 2. (Parus major) = M. curuccae Schrank.
- 124. monochromatium Kellogg and Paine, Rec. Ind. Mus., x, 1914, p. 240. (Garrulus lanceolatus.)
- 125. monostoechum Kellogg, New Mallophaga, ii, 1896, p. 530, Pl. 72, f. 4. (Phasianus nycthemerus.)
- **126. narboroughi** Kellogg and Kuwana, *Proc. Wash. Acad. Sc.*, iv, 1902, p. 485, Pl. 31, f. 2. (Several sea-birds, Galapagos.)
- 127. navigans Kellogg New Mallophaga, i, 1896, p. 156, Pl. 14, f. 4, 5. (Diomedea albatrus.)
- 79. neutrale Nitzsch in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 307. (Phasianus coichicus), Nom. nud. (? error for ventrale. L. H.)
- 128 nigropieurum Denny, Anoplur. Brit., 1842 p. 224, Pl. 20, f. 1. (Several Charadrifformes.)
  - 80. nigrum Kellogg and Paine, see Myrsidea.
- 81. numenii Rudow, Zeit. f. ges. Nat., xxvii, 1866, p. 469. (Numenius lineatus)=M. lutescens Nitzsch.
- 129. numerosum Kellogg, New Mallophaga, i, 1896, p. 159, Pl. 15, f. 1. (Fulmarus glacialis, Puffinus subalaris.)
- 130. numidae Giebel, Ins. Epiz., 1874, p. 292. (Numida meleagris.)
- 82. obovatum Piaget, see Myrsidea.
- 131. obscurum Piaget, Pédiculines, 1880, p. 497, Pl. 40, f. 8. (Anas (Tadorna) radjah.)
  - 83. obtusum Giebel, Ze't. f. ges. Nat., xxviii, 1866, p. 392.

    (Larus (Rissa) tridactylus) = M. ridibundum

    Denny.
- 83a. orientale Giebel, Zeit. f. ges. Nat., xxviii., 1866, p. 392. (Glareola orientalis). Nom. nud.
- 132. ortalidis Carriker, Univ. Nebr. Stud., iii, 1903, p. 179, Pl. 7, f. 1. (Ortalis cinereiceps.)

- 1133. ovatum Piaget, Pédiculines, 1880. p. 430, Pl. 34, f. 6. (Corvus scapulatus.)
- 84. ovatum Piaget, see Myrsidea.
- 85. pacificum Kellogg, see Pseudomenopon.
- 134. pachypus Piaget, *Tijd. v. Ent.*, xxxiii, 1888, p. 161, Pl. 4, f. 4. (*Sterna hirundo.*)
- 86. pallescens Nitzsch in Giebel, Ins. Epiz., 1874, p. 293. (Perdix cinerea (perdix))=M. perdicis Denny.
- 135. pallidulum Neumann, Arch. Parasit., xv, 1912, p. 361, f. 7, 8. (Gallus domesticus (gallus).)
- 87. pallidum Nitzsch in Burmeister, Handbuch, ii, 1838, p. 440. (Gallus domesticus) = M. gallinae Linn.
- 88. pallidum Piaget, Pédiculines, 1880, p. 471 (nec Nitzsch, 1838). (Caccabis saxatilis.)
- 89. pallidum Piaget, Pédiculines, Suppl., 1885, p. 102, see Myrsidea.
- 136. pallipes Piaget, Pédiculines, Suppl., 1885, p. 111, Pl. 12, f. 2. (Excaifactoria australis.)
- 137. palloris Carriker, Univ. Nebr. Stud., iii, 1903, p. 189, Pl. 8, f. 3. (Stelgidopteryx ruficoliis.)
  - 90. par Kellogg, see Pseudomenopon.
  - 91. parumpilosum Piaget, see Myrsidea.
  - 92. parviceps Piaget, Pédiculines, 1880, p. 446, Pl. 36, f. 3. (Alauda arvensis) = M. alaudae Schrank.
- 138. parvulum Piaget, Pédiculines, 1880, p. 444, Pl. 35, f. 4. (Cypselus apus.)
- 139. paululum Kellogg and Chapman, New Mallophaga, iii, 1899, p. 119, Pl. 8, f. 2. (Puffinus spp.)
  - 93. pectinatum Neumann, see Colpocephalum.
  - 94. pectiniferum Piaget, see Colpocephalum.
- 140. pellucidum Rudow, Zeit. f. ges. Nat., xxxiv, 1869, p. 400. (Phalacrocorax capensis.)
- 95. perale Leidy, see Tetrophthalmus.
- 141. perdicis Denny, Anoplur. Brit., 1842, p. 225, Pl. 21, f. 9. (Perdix cinerea (perdix)) [67, 86, 88].
- 142. perforatum Piaget, Pédiculines, 1880, p. 453, Pl. 42, f. 9. (Eremophila chrysolaema=Otocorys alpestris chrysolaema, Rhipidura sp.)
- 143. persignatum Kell. & Chap., New Mallophaga, iii, 1899, p. 128, Pl. 9, f. 1. (Cyanocitta frontalis.)
- 144. petulans Kell. & Chap., New Mallophaga, iii, 1899, p. 121, Pl. 8, f. 3. (Puffinus griseus.)

- 96. phaeopus Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 392. (Larus spp.) = M. ridibundus Denny.
- 145. phaeostomum Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 391. (Pavo spp.)
- 97. phanerostigma Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 391. (Cuculus canorus) = M. fasciatum Scopoli.
- 98. phanerostigmaton Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 309, for M. phanerostigma Nitzsch = M. fasciatum Scopoli.
- 99. picae Denny, see Myrsidea.
- **146.** pici Denny, Anoplur. Brit., 1842, p. 219, Pl. 20, f. 5. (Picus (Gecinus) viridis.)
- **147.** picicola Packard, Ann. Rept. U.S. Geol. Surv., 1872, p. 731, f. 58. (*Picoides* spp.)
- 148. pileatum Rudow, Zeit. f. ges. Nat., xxxiv, 1869, p. 401. (Cassicus yuaracares=Gymnostinops yuracarium.)
- 100. pilosum Piaget, see Myrsidea.
- 149. planiceps Piaget, Pédiculines, Suppl., 1885, p. 115, Pl. 12, f. 6. (Ardea (Tigrornis) leucolopha.)
- 101. platygaster Giebel, see Myrsidea.
- **150.** popellus Piaget, *Tijd. v. Ent.*, xxxiii, 1888, p. 251, Pl. 10, f. 5. (*Podica senegalensis.*)
- 151. praecursor Kellogg, New Mallophaga, iii, 1899, p. 46, Pl. 4, f. 8. (Melanerpes uropygialis.)
- 102. productum Piaget, Pédiculines, 1880, p. 461, Pl. 37, f. 8. (Phasianus spp.) = M. fulvomaculatum Denny.
- 103. productum Piaget, Pédiculines, Suppl., 1885, p. 109. (Euplocamus swinhoei.)
- 104. psittaci Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 309.

  Nom. nud.
- 105. psittacus Le Souëf and Bullen, Vict. Nat., xviii, 1902, p. 158, f. 8.

  (Platycercus eximius) nec psittaci Gurlt, 1857,

  = M. pteropsittacus Harrison.
- 152. \*pteropsittacus nom. nov. for M. psittacus Le Souëf and Bullen, nec M. psittaci Gurlt.

#### (Platycercus eximius) [105].

- 153. ptilonorhynchi Ponton, Month. Micr. Journ., vi, 1871, p. 8, Pl. 91, f. 1. (Ptilonorhynchus holosericeus.)
- 106. pulicare Nitzsch, see Dennyus.
- 107. pullulum Piaget, see Myrsidea.
- 108. pusillum Nitzsch, Zeit. f. ges. Nat., xxvii, 1866, p. 120.

(Motacilla alba, Emberiza citrinella) = M. citrinellae Denny.

- pustulosum Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 393. 154. (Sula spp.) [39].
- pyrrhulae Panzer, Ins. Germ., 1793, nec Schrank, 1776. 109.
- *110*. quadrifasciatum Piaget, see Myrsidea.
- 155. quinqueguttatum Rudow, Zeit. f. ges. Nat., xxxiv, 1869, p. 402. (Carpophaga samoensis.)
- 111. ragazzi Picaglia, see Tetrophthalmus.
- 156. ralli Neumann, Arch. Parasit., 1912, p. 366. (Rallus aquaticus.)
- 112. recurvirostrae Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 309. (Recurvirostra avocetta.) Nom. nud.
- ridibundum Denny, Anoplur. Brit., 1842, p. 227, Pl. 20, f. 3. 157. (Larus spp.) [83, 96, 127].
- ridulosum Kellogg and Chapman, see Myrsidea. 113.
- 114. robsoni Cummings, see Myrsidea.
- robustum Kellogg, New Mallophaga, ii, 1896, p. 528, Pl. 72, f. 3. 158. (Psaltriparus minimus.)
- 115. rusticum Giebel, see Myrsidea.
- saturatum Piaget, see Myrsidea. 116.
- scalare Piaget, Pédiculines, Suppl., 1885, p. 95, Pl. 10, f. 5. 159. (Psittacus erithacus.) Sub-species of M. impar Piaget.
- Piaget, Pédiculines, 1880, p. 442, Pl. 42, f. 6. 160. scitum (Copsychus mindanensis.)
- scopulacorne Denny, see Pseudomenopon. 117.
- semilunare Piaget, Pédiculines, 1880, p. 424, Pl. 33, f. 8. 161. (Cucuius (Eudynamis) orientalis.)
- Piaget, Pédiculines, Suppl., 1885, p. 103, Pl. 11, f. 4. 162. setosum (Coccothraustes vulgaris (coccothraustes).)
- sigmoidale Picaglia, Atti Soc. Ital. Sc. Nat., xxviii, 1885, p. 6. 163. (Graculus (Phalacrocorax) lucidus.)
- singulare Kell. & Kuw., Proc. Wash. Acad. Sc., iv, 1902, p. 485, 164. Pl. 31, f. 1. (Sula spp.)
- sinuatum Burmeister, Handbuch, ii, 1838, p. 440. 118. (Parus major) = M. curuccae Schrank.
- Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 390. 165. sittae (Sitta europaea.)
- snodgrassi Kell. & Kuw., Proc. Wash. Acad. Sc., iv, 1902, p. 486, 166. Pl. 31, f. 3. (Coccyzus melocoryphus.)
- spiniferum Piaget, Pédiculines, Suppl., 1885, p. 99, Pl. 10, f. 9. 167. (Cyanocorax pileatus (chrysops), Sturnus vulgaris.)
- *119*. Enderlein, see Heterodoxus. spiniger

- 120. spinigerum [Enderlein] Neumann, see Heterodoxus.
- 121. spinimentum Neumann, see Eomenopon.
- 168. spinosum Piaget, Pédiculines, 1880, p. 449, Pl. 36, f. 4, 5. (Cardinalis virginianus.)

( Carduelis cucullata=Spinus cucullatus.)

- 169. spinulosum Giebel, Ins. Epiz., 1874, p. 293. (Polyplectron tibetanum.)
- 170. stenodesmum Carriker, Univ. Nebr. Stud., iii, 1903, p. 184, Pl. 8, f. 2. (Empidonax (Mitrephanes) atriceps.)
- 171. stramineum Nitzsch in Giebel, Ins. Epiz., 1874, p. 291. (Meleagris gallopavo) [8, 72].
- 172. strepsilae Denny, Anoplur. Brit., 1842, p. 226, Pl. 21, f. 8. (Strepsilas collaris=Arencria interpres.)
- 173. striatum Kellogg, New Mallophaga, iii, 1899, p. 44, Pl. 4, f. 6. (Lagopus lagopus.)
- 122. subaequale Lyonet, Mém. Mus., xviii, 1829, p. 266, Pl. 4, f. 5.

  = Menopon mesoleucum Nitzsch, not Colpocephalum subaequale N., see Myrsidea.
- 123. subaequale Piaget, Pédiculines, 1880, p. 463, Pl. 37, f. 5. (Euplocamus (Gennaeus) ignitus)=M. substitutum Harr.
- 174. subrotundum Piaget, Pédiculines, 1880, p. 453, Pl. 35, f. 2. (Phalacrocorax sulciroséris.)
- 175. \*substitutum nom. nov. for M. subaequale Piaget, 1880, nec Lyonet, 1829. (Euplocamus (Gennaeus) ignitus) [103, 123].
- 176. sulcatum Piaget, Pédiculines, 1880, p. 485, Pl. 39, f. 7. (Ardea (Casmerodius) egretta.)
- 177. tadornae Gervais, Aptères, iii, p. 323, Pl. 49, f. 6, called Philopterus in error. (Tadorna cornuta (tadorna).)
- 124. tantali Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 309. Nom. nud.
- 125. tantali Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 391, nec Gurlt, 1857. (Tantalus loculator) = M. maculipes Giebel.
- 178. tarsatum Piaget, Pédiculines, 1880, p. 472, Pl. 42, f. 4. (Cryptonyx coronatus=Rollulus roulroul.)
- 179. temporale Piaget, Pédiculines, 1880, p. 487, Pl. 39, f. 6. (Leptoptilus argala.)
- 180. thoracicum Giebel, Ins. Epiz., 1874, p. 287.

  (Turdus viscivorus and other passerines) [67].
- **131.** tibiale Piaget, *Pédiculines*, Suppl., 1885, p. 100, Pl. 11, f. 1. (*Cyanopolius cooki*) [74].
- 126. titan Piaget, see Tetrophthalmus.
- **182.** tityrum Carriker, *Univ. Nebr. Stud.*, iii, 1903, p. 182, Pl. 7, f. 4. (*Tityra personata.*)

- 183. translucidum Piaget, Pédiculines, Suppl., 1885, p. 150, Pl. 16, f. 4. (Amblyrhamphus holosericeus.)
- 127. transversum Denny, Anoplur. Brit., 1842, p. 226, Pl. 21, f. 7. (Larus (Rissa) tridactylus)=M. ridibundum Denny.
- 128. tridens Nitzsch, see Pseudomenopon.
- 129. trigonocephalum Olfers, De Vegetativis, 1816, p. 90. (Gallus domesticus (gallus))=M. gallinae Linn.
- 130. trinoton Piaget, see Myrsidea.
- 184. triseriatum Piaget, Pédiculines, 1880, p. 460, Pl. 37, f. 3. (Gallus bankiva.)
- 131. triste Giebel, see Colpocephalum.
- 132. trithorax Piaget, see Myrsidea.
- 185. troglodytis Denny, Anoplur. Brit., 1842, p. 221, Pl. 18, f. 7. (Troglodytes europaeus=Anorthura troglodytes.)
- 186. truncatum Giebel, Ins. Epiz., 1874, p. 288.

  (Muscicapa (Megarhynchus) pitangua.)
- 187. tumidum Piaget, Pédiculines, Suppl., 1885, p. 151, Pl. 16, f. 5. (Plectropterus gambensis.)
- 188. unicolor Piaget, *Pédiculines*, 1880, p. 471, Pl. 38, f. 5. (*Perdix* spp.)
- 189. uniseriatum Piaget, Pédiculines, 1880, p. 464, Pl. 37, f. 4. (Phasianus praelatus=Lophura diardi.)
- 190. ventrale Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 391. (Argusianus giganteus (argus).)
- 191. virgo Giebel, Ins. Epiz., 1874, p. 288. (Coracias garrula) [27].
- 133. vulturis Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 310. Nom. nud.
- 192. zonatum Piaget, Pédiculines, Suppl., 1885, p. 152, Pl. 16, f. 6. (Sarcorhamphus (Vultur) gryphus.)

## Genus 10. Colpocephalum Nitzsch.

- 1. abbotti Kellogg, New Mallophaga, iii, 1899, p. 36, Pl. 4, f. 9. (Larus sp.)
- 2. abdominale Piaget,  $P\'{e}diculines$ , 1880, p. 543, Pl. 45, f. 4. (Grus leucauchen) [34] = Pseudogeranus leuchauchen.
- 3. abruptofasciatum Mjöberg, Arkiv f. Zool., vi, 1910, p. 36. (Milvus aegyptius.)
- 4. aculeatum Piaget, Pédiculines, Suppl., 1885, p. 121, Pl. 13, f. 4. (Columba iriditorques.)
- 5. affine Nitzsch in Giebel, Ins. Epiz., 1874, p. 276.

  (Totanus (Heteropygia) maculatus, etc.)

- 6. ailurum Nitzsch in Giebel, Zeit. f. ges. Nat., xvii, 1861, p. 522. (Falco macei=Haliaetus leucoryphus.)
- 7. albidum Giebel, Ins. Epiz., 1874, p. 268. (Phaps chalcoptera.)
- 8. albonigrum Giebel, Ins. Epiz., 1874, p. 266. (Cassicus cristatus=Ostinops decumanus.)
- 9. angulaticeps Piaget, Pédiculines, 1880, p. 569, Pl. 47, f. 8. (Fregata minor.)
- 10. appendiculatum Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 394. (Argusianus giganteus (argus).)
- 11. armiferum Kellogg, Zoologica, 1910, p. 119, f. 38. (Opisthocomus cristatus (hoazin).)
- 12. assimile Piaget, Pédiculines, 1880, p. 544. (Grus americana.)
- atrofasciatum Piaget, Pédiculines, 1880, p. 542, Pl. 45, f. 3.
   (Grus communis (grus).)
   (Grus (Balearica) pavonina) = C. semiluctus Gervais.
- 13. bicinctum Nitzsch in Giebel, Zeit. f. ges. Nat., xvii, 1861, p. 524. (Circus aeruginosus, Cathartes (Catharista) foetens.)
- 14. bicolor Piaget, Pédiculines, 1880, p. 561, Pl. 47, f. 1. (Strepsilas (Arenaria) interpres.)
- biseriatum Piaget, Pédiculines, 1880, p. 532.
   (Gracula (Eulabetes) javanensis.)
- brachycephalum Giebel, Ins. Epiz., 1874, p. 278.
   (Lestris pomarina=Stercorarius pomatorhinus.)
- brachysomum Kell. & Chap., Journ. N. Y. Ent. Soc., x, 1902, p. 162,
   Pl. 14, f. 3. (Asio accipitrinus.)
- breve Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 394.
   (Dicholophus cristatus=Cariama cristata.)
  - 2. bubonis Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 393. (Bubo maximus.) Nom. nud.
- burmeisteri Kellogg, Journ. N. Y. Ent. Soc., xiv, 1906, p. 48, Pl. 2,
   f. 5. (Ara chloroptera.)
- 20. castaneum Piaget, Pédiculines, Suppl., 1885, p. 153, Pl. 16, f. 7. (Cygnus atratus.)
- **21.** caudatum Giebel, *Ins. Epiz.*, 1874, p. 261. (*Vultur (Gyps) indicus*) [18].
- 22. chrysophaeum Kellogg, New Mallophaga, ii, 1896, p. 520, Pl. 71, f. 1. (Melospiza fasciata.)
- 23. ciliatum Piaget, Tijd. v. Ent., xxxiii, 1888, p. 256, Pl. 10, f. 9. (Tetraogallus (Gennaeus) cuvieri.)

- 24. cinctum Rudow, Zeit. f. ges. Nat., xxvii, 1866, p. 472. (Priocella glacialoides.)
- 3. coenops Nitzsch in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 318.

  (Halieus brasiliensis=Phalacrocorax vigua.)

  Nom. nud.
- 25. commune Rudow, Zeit. f. ges. Nat., xxvii, 1866, p. 474. (Halieus brasiliensis, Neomorphus cultridens.)
- 4. conspicuum Kellogg and Chapman, see Myrsidea.
- 26. cornutum Rudow, Zeit. f. ges. Nat., xxvii, 1866, p. 470. (Grus (Balearica) pavonina.)
  - 5. cornutum Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 395. (Machetes pugnax) = C. umbrinum Nitzsch.
- costaricense Carriker, Univ. Nebr. Stud., iii, 1903, p. 172.
   (Buteo borealis cestaricensis.) Sub-species of C. osborni Kellogg.
- 28. crassiceps Piaget, Pédiculines, Suppl., 1885, p. 120, Pl. 13, f. 3. (Psittacus timneh.)
- 29. crassipes Piaget, *Pédiculines*, 1880, p. 566, Pl. 47, f. 6. (*Sterna bergii.*)
- 30. cucullare Giebel, Ins. Epiz., 1874, p. 264.

  (Gypogeranus (Serpentarius) serpentarius) [19].
- 31. decimfasciatum Boisduval and Lacordaire, Faun. Ent. Env. Paris, 1835, p. 123. (Ardea cinerea) [12, 21].
- 32. deperditum Nitzsch in Giebel, Ins. Epiz., 1874, p. 265, Pl. 13, f. 9. (Corvus cornix.) No description; figure is of an immature individual. L. H.
- 6. diffusum Kellogg, see Myrsidea.
- 33. discrepans Kell. & Chap., Journ. N. Y. Ent. Soc., x, 1902, p. 164, Pl. 15, f. 1. (Carpodacus mexicanus obscurus.)
- **34.** dissimile Piaget, *Pédiculines*, 1880, p. 520, Pl. 43, f. 4. (*Milvus aegyptius*) [22].
- 35. dolium Rudow, Zeit. f. ges. Nat., xxxiv, 1869, p. 393. (Podiceps cristatus.)
- 36. dominicanum Kellogg and Mann, Ent. News, xxiii, 1912, p. 63. (Oceanodroma macrodactyla.)
  - 7. dubium Schilling in Gurlt, Arch. f Naturgesch., xxiii, 1857, p. 307. (Falco (Circus) cyaneus.) Nom. nud.
- **37.** ellipticum Piaget, *Pédiculines*, 1880, p. 570, Pl. 48, f. 1. (*Larus mangola.*)
- 38. elongatum Piaget, Pédiculines, 1880, p. 529, Pl. 44, f. 2. (Pyrrhocorax alpinus.)
- 39. ephippiorhynchi Mjöberg, Arkiv f. Zool., vi, 1910, p. 43. (Ephippiorhynchus senegalensis.)

- epiphanes Kell. & Chap., Journ. N. Y. Ent. Soc., x, 1902, p. 161, Pl. 14,
   f. 2. (Anous stolidus.)
- 41. eucarenum Nitzsch in Burmeister, Handbuch, ii, 1838, p. 439. (Pelecanus onocrotalus.)
- 42. eurygaster Piaget, Tijd. v. Ent., xxxi, 1888, p. 162, Pl. 4, f. 5. (Leptoptilus argala.)
- 8. eurysternum [Nitzsch] Denny, see Menopon.
- 9. extraneum Carriker, see Myrsidea.
- 43. femoratum Piaget, Pédiculines, Suppl., 1885, p. 124, Pl. 13, f. 7. (Mycteria americana=Jabiru mycteria.)
- 44. flavescens Nitzsch in Lyonet, Mém. Mus., xviii, 1829, p. 262, Pl. 12, f. 1. (Many Accipitrines.)
- 45. flavipes Giebel, Ins. Epiz., 1874, p. 276. (Vanellus varius.)
- **46.** flavum Rudow, Zeit. f. ges. Nat., xxvii, 1866, p. 472. (Carduelis granadensis.)
- **47.** fregili Denny, *Anoplur. Brit.*, 1842, p. 208, Pl. 20, f. 4. (*Fregilus graculus.*)
- 48. fumidum Kellogg, New Mallophaga, ii, 1896, p. 523, Pl. 71, f. 5. (Psaltriparus minimus.)
- **49. funebre** Kellogg, *New Mallophaga*, i, 1896, p. 147, Pl. 12, f. **7.** (*Larus* spp.)
- **50.** furcatum Rudow, Zeit. f. ges. Nat., xxvii, 1866, p. 472. (Aestrelata mollis.)
- 51. fuscipes Piaget, Pédiculines, 1880, p. 567, Pl. 47, f. 7. (Larus dominicanus.)
- **52. fusconigrum** Giebel, *Ins. Epiz.*, 1874, p. 274. (*Ibis* spp.)
- 10. gallinulae Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 307. Nom. nud.
- 53. gracile Piaget, Pédiculines, 1880, p. 555, Pl. 46, f. 5. (Platalea leucorodia.)
- 54. grandiceps Piaget, Pédiculines, 1880, p. 558, Pl. 46, f. 7. (Haematopus ostralegus et al.) [16].
- 55. grandiculum Kell. & Chap., New Mallophaga, iii, 1899, p. 113, Pl. 7, f. 10. (Pipilo fuscus, Melospiza fasciata.)
- 56. guiraense Kellogg, Journ. N. Y. Ent. Soc., xiv, 1906, p. 47, Pl. 2, f. 4. (Guira guira.)
- 57. gypagi Carriker, Univ. Nebr. Stud., iii, 1903, p. 171, Pl. 6, f. 2. (Gypagus (Sarcorhamphus) papa.)
- **58.** haliaeti Denny, *Anoplur. Brit.*, 1842, p. 216, Pl. 19, f. 1. (*Pandion haliaetus*) [28].

- 59. heterocephalum Nitzsch in Giebel, Zeit. f. ges Nat., xviii, 1861, p. 305. (Psittacus erithacus.)
- 60. heterosoma Piaget, Pédiculines, 1880, p. 572, Pl. 48, f. 3, 4. (Phoenicopterus antiquorum.)
- 61. hirtum Rudow, Zeit. f. ges. Nat., xxvii, 1866, p. 475. (Buceros ruficollis, B. cassidix.)
- 62. hoplopteri Mjöberg, Arkiv f. Zool., vi, 1910, p. 40. (Hoplopterus spinosus.)
- 11. ibis Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 307. Nom. nud.
- 12. importunum Nitzsch in Denny, Anoplur. Brit., 1842, p. 214, Pl. 18, f. 1. (Ardea cinerea) = C. decimfasciatum Boisd. & Lac.
- 63. impressum Rudow, Zeit. f. ges. Nat., xxvii, 1866, p. 475. (Aquila fulva.)
- 64. inaequale Nitzsch in Burmeister, Handbuch, ii, 1838, p. 438. (Picus martius.)
- 65. incisum Piaget, Pédiculines, 1880, p. 569, Pl. 47, f. 9. (Phaethon flavirostris.)
- **66.** kelloggi Osborn, *Ohio Nat.*, ii, 1902, p. 175, Pl. 11 f. 2. (*Cathartes aura.*)
- 67. kilauense Kell. & Chap., Journ. N. Y. Ent. Soc., x, 1902, p. 161, Pl. 14, f. 1. (Heteractitis incanus.)
- 13. lamprotornis Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 307. Nom. nud.
- 14. lari Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 307. Nom. nud.
- 15. lari Packard, Amer. Nat., iv, 1870, p. 96, Pl. 1, f. 1.
   (Larus marinus) nec Gurlt, 1857. (? = piceum Denny. L. H.)
- 68. laticeps Kellogg, New Mallophaga, i, 1896, p. 149, Pl. 12, f. 8. (Ardea (Casmerodius) egretta, Botaurus lentiginosus.)
- 16. laticeps Mjöberg, Arkiv f. Zool., vi, 1910, p. 42.

  (Haematopus ostralegus) nec Kellogg, 1896,

  = C. grandiceps Piaget.
- 69. latifasciatum Piaget, Pédiculines, Suppl., 1885, p. 130, Pl. 14, f. 2. (Rhyncops flavirostris.)
- 70. leptopygos Nitzsch in Giebel, Ins. Epiz., 1874, p. 273. (Ibis sacra, I. melanocephala.)
- 71 limosae [Grube] Kellogg, Sibirische Reise, 1851, p. 490. (Limosa rufa.)
- 17. longicaudum Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 394. (Columba spp.) = C. turbinatum Denny.
- 72. longicorne Rudow, Zeit. f. ges. Nat., xxxiv, 1869, p. 393. (Gallus furcatus.)

- 73. longipes Piaget, Pédiculines, 1880, p. 524, Pl. 43, f. 7. (Eclectus puniceus.)
- longipes Piaget, Pédiculines, Suppl., 1885, p. 125.
   (Chunga burmeisteri) nec 1880, p. 524. Subspecies of C. caudatum Giebel.
- 74. longissimum Rudow, Zeit. f. ges. Nat., xxxiv, 1869, p. 398. (Leptoptilus crumenifer.)
- **75.** luroris Carriker, *Univ. Nebr. Stud.*, iii, 1903, p. 174, Pl. 6, f. 4. (*Zarhynchus wagleri.*)
- **76.** luteum Schömmer, *Mallophagen*, 1913, p. 69. (*Anas* sp.)
- 77. macilentum Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 394. (Grus communis (grus).)
- 78. maculatum Piaget, Pédiculines, 1880, p. 516, Pl. 43, f. 1. (Polyborus brasiliensis (plancus).)
- 79. \*majesticum Nom. nov. for C. majus Piaget, 1880, p. 538, Pl. 44, f. 10. (Megapodius duperreyi) nec 1880, p. 519 [20].
- 19. majus Piaget, Pédiculines, 1880, p. 519.
  (Gypogeranus (Serpentarius) serpentarius)=C.
  cucullare Giebel.
- 20. majus Piaget, Pédiculines, 1880, p. 538, Pl. 44, f. 10. (Megapodius duperreyi) nec 1880, p. 519 = C. majesticum Harrison.
- 21. majus Piaget, Pédiculines, 1880, p. 549.

  (Ardea (Garzetta) garzetta) nec 1880, p. 519. Sub-species of C. decimfasciatum Boisduval & Lacordaire.
- 22. majus Piaget, Pédiculines, Suppl., 1885, p. 119, Pl. 13, f. 2. (Haliaetus leucogaster) nec 1880, p. 519. Subspecies of C. dissimile Piaget.
- 23. maurum Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 395. (Sterna spp.) = C. piceum Denny.
- 80. megalops Giebel, Ins. Epiz., 1874, p. 261. (Sarcorhamphus papa.)
- 81. miandrium Kellogg, Schwed. Exp. Kilimandjaro, 1910, p. 53, Pl. 7, f. 10. (Balearica regulorum gibbericeps.)
- 82. milleri Kell. & Kuw., Proc. Wash. Acad. Sc., iv, 1902, p. 483, Pl. 30, f. 6. (Anous galapagensis, Sula spp.)
- 83. minus Piaget, *Pédiculines*, 1880, p. 539, Pl. 45, f. 1. (*Megapodius* spp.)
- 24. minus Piaget, Pédiculines, Suppl., 1885, p. 128.

  (Ardea russata) nec 1880, p. 539. Sub-species of C. trochioxum Nitzsch.

- 25. minus Kell. & Chap., New Mallophaga, iii, 1899, p. 112, Pl. 7, f. 9. (Calidris arenaria) nec Piaget, 1880, p. 539. Sub-species of C. spinulosum Piaget.
- 84. minutum Rudow, Zeit. f. ges. Nat., xxvii, 1866, p. 476. (Cygnus musicus.)
- 26. mirabile Carriker, see Myrsidea.
- 85. mjöbergi Cummings, Bull. Ent. Res., 1914, p. 163, f. 4, 5. (Guttera cristata.)
- 86. morsitans Kellogg and Mann, Ent. News, 1912, p. 15, f. 3. (Tringa (Heteropygia) maculata.)
- 87. nanum Piaget, *Tijd. v. Ent.*, xxxiii, 1888, p. 257, Pl. 10, f. 10. (*Larus canus.*)
- 88. napiforme Rudow, Zeit. f. ges. Nat., xxxiv, 1869, p. 395. (Buteo calurus.)
- 89. notatum Piaget, Pédiculines, Suppl., 1885, p. 126, Pl. 13, f. 9. (Dicholophus (Cariama) cristatus.)
- 90. numenii Rudow, Zeit. f. ges. Nat., xxxiv, 1869, p. 389. (Numenius lineatus.)
- 91. nyctarde Denny, Anoplur. Brit., 1842, p. 215, Pl. 20, f. 9. (Ardea (Nycticorax) nycticorax.)
- 92. obscurum Giebel, Ins. Epiz., 1874, p. 273.
  (Ardea (Casmerodius) egretta.)
- 27. obscurum Carriker and Shull, Ent. News, xxi, 1910, p. 52.

  (Arenaria interpres) nec Giebel, 1874. Subspecies of C. spinulosum Piaget.
- 93. occipitale Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 394. (Anastomus coromandelicus.)
- 94. ocellatum Rudow, Zeit. f. ges. Nat., xxxiv, 1869, p. 392. (Namenius phaeopus.)
- 95. ochraceum Nitzsch in Burmeister, *Handbuch*, ii, 1838, p. 438. (*Vanellus cristatus (vanellus)* and other plovers.)
- 96. oculare Carriker and Shull, Ent. News, xxi, 1910, p 52, Pl. 5, f. 1.

  (Arenaria interpres.) Young of obscurum

  Carriker and Shull, and, as the latter name
  is invalid, it becomes valid for this subspecies of C. spinulosum Piaget. L. H. [27]
- 97. oreas Kellogg, Schwed. Exp. Kilimandjaro, 1910, p. 51, Pl. 7, f. 8. (Herodies alba, Ephippiorhynchus senegalensis.)
- 98. osborni Kellogg, New Mallophaga, ii, 1896, p. 521, Pl. 71, f. 2, 3. (Elanus glaucus.)
- 99. oxyurum Nitzsch in Giebel, Zeit. f. ges. Nat., xvii, 1861, p. 519. (Neophron monachus.)

- 28. pachygaster Giebel, Ins. Epiz., 1874, p. 264.

  (Pandion haliaetus) = C. haliaeti Denny.
- **100.** pachypus Piaget, *Tijd. v. Ent.*, xxxiii, 1888, p. 258, Pl. 10, f. 11. (*Pionites brasiliensis.*)
- 101. paetulum Kell. & Kuw., Proc. Acad. Nat. Sc. Philad., 1900, p. 157, Pl. 7, f. 4. (Arenaria interpres.)
- 102. painei Macgregor, Ent. News, xxiii, 1912, p. 305, f. (Otus maccalli.)
- 103. pallidum Piaget, Pédiculines, 1880, p. 526, Pl. 43, f. 4. (Cacatua moluccensis.)
- 104. parumpilosum Piaget, Pédiculines, 1880, p. 536, Pl. 44, f. 8. (Lophophorus impeyanus.)
- 105. parviceps Piaget, Pédiculines, 1880, p. 531, Pl. 44, f. 4. (Lamprotornis aenea.)
- **106.** patellatum Piaget, *Tijd. v. Ent.*, xxxiii, 1888, p. 254, Pl. 10, f. 8. (*Numenius arquatus.*)
- 107. pectinatum Osborn, Ohio Nat., ii, 1902, p. 201, Pl. 14, f. 2. (Speotyto cunicularia hypogaea.)
- 29. pectinatum Neumann, Arch. Parasit., 1912, p. 368, f. 15, as a Menopon. (Anser domesticus (anser)) nec Osborn, 1902 = pectiniventre Harrison.
- 108. pectiniferum Piaget, Pédiculines, Suppl., 1885, p. 90, Pl. 9, f. 8, as a Menopon. (Milvago pezoporus (chimango).)
- 109. \*pectiniventre Nom. nov. for C. pectinatum Neumann, 1912, nec Osborn, 1902. (Anser domesticus (anser)) [29].
- 110. pediculoides Mjöberg, Arkiv f. Zool., vi, 1910, p. 44. (Strepsilas (Arenaria) interpres.)
- 111. pencillatum Piaget, Pédiculines, 1880, p. 552, Pl. 46, f. 2. (Ibis (Lophotibis) cristata.)
- 30. percnopteri Gervais, see Laemobothrion.
- 112. perplanum Kell. & Chap., New Mallophaga, iii, 1899, p. 109, Pl. 7, f. 8. (Lunda cirrhata.)
- 113. piceum Denny, Anoplur. Brit., 1842, p. 212, Pl. 18, f. 4. (Sterna cantiaca et al.) [23].
- 31. pilosum Piaget, Pédiculines, Suppl., 1885, p. 128. (Chauna chavaria) = C. triste Giebel.
- 114. pingue Kellogg, New Mallophaga, i, 1896, p. 144, Pl. 12, f. 5. (Diomedea albatrus, D. nigripes.)
- 115. polybori Rudow, Zeit. f. ges. Nat., xxxiv, 1869, p. 397. (Polyborus tharus (plancus).)
- 116. productum Nitzsch in Burmeister, Handbuch, ii, p. 439. (Buceros abyssinicus) [39].

- 32. psittaci Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 307. Nom. nud.
- 117. pungens Piaget, *Tijd. v. Ent.*, xxxiii, 1888, p. 253, Pl. 10, f. 7. (*Calornis panayensis.*)
- 118. pustulatum Piaget, Pédiculines, 1880, p. 522, Pl. 43, f. 6. (Gypogeranus cirratus.)
- 119. pustulosum Piaget, Pédiculines, 1880, p. 559, Pl. 46, f. 8. (Machetes pugnax.)
- 120. pygidiale Mjöberg, Arkiv f. Zool., vi, 1910, p. 46. (Ibis religiosa.)
- 121. quadrimaculatum Carriker, Journ. N. Y. Ent. Soc., x, 1902, p. 223, Pl. 21, f. 4. (Loxia curvirostra minor.)
- 122. quadripustulatum Nitzsch in Burmeister, Handbuch, ii, p. 438. (Ciconia alba et al.)
- 123. quadriseriatum Picaglia, Atti Soc. Ital. Sc. Nat., xxviii, 1885, p. 8. (Tadorna cornuta (tadorna).)
- 124. scalariforme Rudow, Zeit. f. ges. Nat., xxvii, 1866, p. 471. (Tantalus loculator.)
- 125. scopinum Mjöberg, Arkiv f. Zool., vi, 1910, p. 47. (Scopus umbretta.)
- 126. scopularium Neumann, Arch. Parasit., 1912, p. 370, f. 16. (Passer domesticus.)
- 127. semicinctum Rudow, Zeit. f. ges. Nat., xxvii, 1866, p. 475. (Corvus scapulatus.)
- **128.** semiluctus Gervais, *Aptères*, iii, 1847, p. 322, Pl. 49, f. 7. (*Grus (Balearica) pavonina*) [1, 36].
- 129. setosum Piaget, Pédiculines, 1880, p. 519.

  (Circaetus (Helotarsus) ecaudatus, Haliaetus macel.)

  Sub-species of C. caudatum Giebel.
  - 33. setosum Piaget, Pédiculines, 1880, p. 521, Pl. 43, f. 5.

    (Cathartes (Vultur) gryphus) nec 1880, p. 519

    =trichosum Harrison.
  - 34. setosum Piaget, Pédiculines, Suppl., 1885, p. 126, Pl. 13, f. 8. (Crax carunculata.) Sub-species of C. abdominale Piaget.
  - 35. sjoestedti Kellogg, see Myrsidea.
- 130. spineum Kellogg, New Mallophaga, iii, 1899, p. 38, Pl. 4, f. 1. (Fregata aquila.)
- 131. spinosum Piaget, Pédiculines, 1880, p. 537, Pl. 44, f. 9. (Francolinus capensis.)
- 132. spinulosum Piaget, Pédiculines, 1880, p. 563, Pl. 47, f. 3. (Limosa melanura) [25, 27].

- 133. stictum Kellogg and Paine, Ent. News, xxii, 1911, p. 77, f. 2. (Gallinago delicata.)
- 134. subaequale Nitzsch in Burmeister, Handbuch, ii, 1838, p. 438. (Corvus spp.)
- 135. subflavescens Piaget, Pédiculines, 1880, p. 571, Pl. 48, f. 2. (Xenorhynchus senegalensis.)
- **136.** subpachygaster Piaget, *Pédiculines*, 1880, p. 517, Pl. 43, f. 2. (*Strix* spp.)
- 137. subpenicillatum Piaget, *Pédiculines*, Suppl., 1885, p. 123, Pl. 13, f. 6. (*Ibis hagedasch=Hagedaschia hagedasch.*)
- 138. subpustulatum Carriker & Shull, Ent. News, xxi, 1910, p. 54, Pl. 5, f. 2. (Ceryle alcyon.)
- 139. subrotundum Giebel, Ins. Epiz., 1874, p. 266. (Musophaga violacea.)
- 140. sulcatum Piaget, Pédiculines, 1880, p. 565, Pl. 47, f. 5. (Sterna nigra=Hydrochelidon nigra.)
- 141. temporale Piaget, Tijd. v. Ent., xxxiii, 1888, p. 252, Pl. 10, f. 6. (Microglossus aterrimus.)
- 142. thoracicum Kellogg and Paine, Rec. Ind. Mus., x, 1914, p. 230. (Pavo muticus.)
- 143. tibiale Piaget, Tijd. v. Ent., xxxi, 1888, p. 163, Pl. 4, f. 6. (Tantalus (Pseudotantalus) senegalensis.)
- 144. tigrum Kellogg and Mann, Ent. News, xxiii, 1912, p. 64. (Arenaria melanocephala.)
- 145. timidum Kellogg, New Mallophaga, i, 1896, p. 145, Pl. 12, f. 6. (Charadrius dominicus.)
- 146. \*trichosum Nom. nov. for setosum Piaget, 1880, p. 521, nec p. 519. (Cathartes (Vultur) gryphus) [33].
- 147. tricinctum Nitzsch in Giebel, Zeit. f. ges. Nat., xvii, 1861, p. 524. (Milvus ater.)
- 148. trilobatum Giebel, Ins. Epiz., 1874, p. 275. (Tringa minuta.)
- 149. trimaculatum Piaget, Pédiculines, 1880, p. 525, Pl. 43, f. 8. (Platycercus pallidiceps, P. barrabandi.)
- 150. trispinum Piaget, Pédiculines, Suppl., 1885, p. 122, Pl. 13, f. 5. (Theristicus caudatus.)
- **151.** triste Giebel, *Ins. Epiz.*, 1874, p. 297. (*Chauna chavaria*) [31].
- 152. trochioxum Nitzsch in Burmeister, Handbuch, ii, 1838, p. 438. (Botaurus stellaris) [24].
- **153.** truncatum Piaget, *Pédiculines*, 1880, p. 540, Pl. 45, f. 2. (*Grus* spp.) (? = macilentum N. L. H.)

- 36. tuberculatum Rudow, Zeit. f. ges. Nat., xxxiv, 1869, p. 394. (Grus (Balearica) pavonina)=C. semiluctus Gervais.
- **154.** turbinatum Denny, *Anoplur. Brit.*, 1842, p. 209, Pl. 21, f. 1. (*Columba livia*) [17].
- 155. umbrinum Nitzsch in Burmeister, Handbuch, ii, 1838, p. 438. (Tringa (Erolia) subarquata) [5].
- 37. umbrinum Piaget, Pédiculines, 1880, p. 556, Pl. 46, f. 6. (Tringa (Erolia) subarquata) nec Nitzsch, 1838 = umbrosum Harrison.
- 156. \*umbrosum Nom. nov. for umbrinum Piaget, 1880, nec Nitzsch, 1838. (Tringæ (Erolia) subarquata) [37].
- 157. unciferum Kellogg, New Mallophaga, i, 1896, p. 140, Pl. 12, f. 1–3. (Pelecanus spp.)
- 158. unicolor Rudow, Zeit. f. ges. Nat., xxvii, 1866, p. 470. (Carpophaga samoensis, C. bicolor.)
- 159. uniforme Kellogg, New Mallophaga, i, 1896, p. 142, Pl. 12, f. 4. (Recurvirostra americana.)
- 160. uniseriatum Piaget, Pédiculines, 1880, p. 562, Pl. 47, f. 2. (Recurvirostra avocetta.)
- 161. veratrum Kellogg, Schwed. Exp. Kilimandjaro, 1910, p. 52, Pl. 7, f. 9. (Herodias alba.)
  - 38. villosum Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 394. (Psittacus erithacus.) Nom. nud.
- 162. vinculum Le Souëf and Bullen, Vict. Nat., xviii, 1902, p. 158, f. 10. (Strepera graculina.)
- 163. vittatum Rudow, Zeit. f. ges. Nat., xxvii, 1866, p. 469. (Ardea (Ardeola) ralloides.)
- 39. vittatum Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 394.

  (Buceros abyssinicus.) Nom. nud. = C. productum Nitzsch.
- 164. xenicum Kellogg, Schwed. Exp. Kilimandjaro, 1910, p. 52. (Ardetta (Ardeirallus) sturmi.)
- 165. zebra Nitzsch in Burmeister, Handbuch, ii, 1838, p. 438. (Ciconia alba.)
- 166. zonatum Rudow, Zeit. f. ges. Nat., xxxiv, 1869, p. 391. (Ardea (Ardeola) ralloides.)

## Genus 11. **Eomenopon** Harrison.

- 1. denticulatum Harrison, Parasitology, vii, 1915, p. 385, f. 5, 6, 16. (Trichoglossus novaehollandiae, Ptilosclera versicolor.)
- 2. spinimentum Neumann, Bull. Soc. Toulouse, xxv, 1891, p. 88, f. 5. (Chalcopsittacus fuscatus.)

### Genus 12. Myrsidea Waterston.

- 1 albiceps Piaget, Pédiculines, 1880, p. 437, Pl. 34, f. 4. (Garrulus caledonicus) [1].
- 1. albipes Piaget, Pédiculines, 1880, p. 680, nom. nov. in error for Menopon albipes Piaget, nec Giebel, the latter's species being albipes, = albiceps Piaget.
- americana Kellogg, New Mallophaga, ii, 1896, p 539.
   (Corvus americanus.) Sub-species of M. mesoleuca N.
- 3. argentina Kellogg, Journ. N. Y. Ent. Soc., xiv, 1906, p. 49, Pl. 2, f. 7. (Chrysomitris icterica.)
- 4. anathorax Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 120. (Corvus monedula.)
- \*6. breviventris Piaget, Pédiculines, 1880, p. 441, Pl. 35, f. 8. (Pastor tricolor.)
- 7. brunnea Nitzsch, Zeit. f. ges. Nat., xxvii, 1866, p. 120. (Nucifraga caryocatactes.)
- castanea Piaget, Pédiculines, Suppl., 1885, p. 99.
   (Corvus macrorhynchus.) Sub-species of M. ovata Piaget.
- concreta Piaget, Pédiculines, 1880, p. 481, Pl. 38, f. 9.
   (Porphyrio melanopterus (melanonotus?). ? Straggler. L. H.)
- 10. consimilis Piaget, Pédiculines, Suppl., 1885, p. 97, Pl. 10, f. 7. (Corvus cornix.)
- 11. conspicua Kell. & Chap., Journ. N. Y. Ent. Soc., x, 1902, p. 164, Pl. 15, f. 4. (Carpodacus mexicanus obscurus.)
- 2. cornicis Degeer, Mém. Hist. Ins., 1778, vii, p. 76, Pl. 4, f. 11, nec Fabricius, 1775 = subaequalis Lyonet.
- 12. crassipes Piaget, Pédiculines, 1880, p. 450, Pl. 35, f. 7. (Epimachus magnificus.)
- 13. cucullaris Nitzsch in Burmeister, *Handbuch*, ii, 1838, p. 439. (Sturnus vulgaris) [3].
- 14. cyrtostigma Kell. & Chap., Journ. N. Y. Ent. Soc., x, 1902, p 165, Pl. 15, f. 3. (Several passerines, Hawaii.)
- **15.** diffusa Kellogg, New Mallophaga, iii, 1899, p. 40, Pl. 4, f. 3, 4. (Several passerines, Panama.)
- **16.** 'dissimilis Kellogg, New Mallophaga, ii, 1896, p. 536, Pl. 73, f. 5. (*Progne subis*) (? = rustica Nitzseh. L. H.)
- 17. exsanguis Paine and Mann, Psyche, xx, 1913, p. 19. (Campophilus melanoleucus.)
  - \* No. 5 is omitted through changes in the proof. ED.

- 18. extranea Carriker, Univ. Nebr. Stud., iii, 1903, p. 173, Pl. 6, f. 3. (Nyctidromus albicollis. ? Straggler, L. H.)
  - 3. flavescens Piaget, Pédiculines, 1880, p. 439, Pl. 35, f. 9. (Sturnus spp.) = cucullaris Nitzseh.
- 19. flavida Piaget, Pédiculines, 1880, p. 438, Pl. 42, f. 5. (Eurylaemus cucullatus.)
- 20. funerea Kell. & Chap., New Mallophaga, iii, 1899, p. 124, Pl. 8, f. 6. (Several passerines, California.)
- 21. gonophaea Nitzsch in Burmeister, Handbuch, ii, 1838, p. 440. (Corvus corax.)
- **22.** grandiceps Piaget, *Pédiculines*, 1880, p. 494, Pl. 41, f. 6. (*Xulla mangola.*)
- 23. imbricata Neumann, Bull. Soc. Toulouse, xxv, 1890, p. 91, f. 7. (Chlorolampis elegans.)
- 24. inaequalis Piaget, Pédiculines, 1880, p. 443, Pl. 35, f. 1. (Lanius collurio.)
- 25. incerta Kellogg, New Mallophaga, ii, 1896, p. 533, Pl. 73, f. 2. (Many passerines, America.)
- 26. indivisa Nitzsch, Zeit. f. ges. Nat., xxvii, 1866, p. 120. (Garrulus glandarius.)
- 27. insolita Kellogg and Paine, Rec. Ind. Mus., x, 1914, p. 238. (Corvus insolens.)
- 28. integra Piaget, Pédiculines, 1880, p. 451, Pl. 35, f. 5. (Paradisea chalybaea=Manucodia chalybata.)
- intermedia Piaget, Pédiculines, 1880, p. 430.
   (Corvus torquatus.) Sub-species of M. obovata P.
- 30. interrupta Osborn, Bull. 5, Div. of Ent. (1896), p. 245, Pl. 2, f. h. (Corvus americanus) (? = americana Kell. L. H.)
- 31. invadens Kell. & Chap., Journ. N.Y. Ent. Soc., x, 1902, p. 167, Pl. 15, f. 5. (Acridotheres tristis.)
- 32. isostoma Nitzsch, Zeit. f. ges. Nat., xxvii, 1866, p. 119. (Corvus frugilegus.)
- 33. major Piaget, Pédiculines, 1880, p. 441. (Emberiza nivalis.) Sub-sp. of M. quadrifasciata.
- 34. melanorum Kellogg, New Mallophaga, ii, 1896, p. 532, Pl. 73, f. 1. (Pipilo erythrophthalmus.)
- **35.** mera Piaget, *Pédiculines*, Suppl., 1885, p. 108, Pl. 11, f. 10. (*Ptilopus fasciatus*.)
- 4. mesoleuca Nitzsch in Burmeister, Handbuch, ii, 1838, p. 439. (Corvus cornix, C. corone) = subaequalis Lyonet.
- 36. minuscula Piaget, Pédiculines, Suppl., p. 104, Pl. xi, f. 5. (Philepitta jala.)

- 37. mirabilis Carriker, Univ. Nebr. Stud., iii, 1903, p. 175, Pl. 6, f. 5. (Zarhynchus wagleri.)
- 38. nigra Kellogg and Paine, Bull. Ent. Res., 1911, p. 151, Pl. 5, f. 4. (Corvultur albicollis.)
- 39. obovata Piaget, Pédiculines, 1880, p. 429, Pl. 34, f. 1. (Corvus scapulatus.)
- **40.** ovata Piaget, *Pédiculines*, 1880, p. 430, Pl. 34, f. 6. (*Corvus scapulatus.*)
- 5. pallida Piaget, Pédiculines, Suppl., 1885, p. 102. (Epimachus albus) nec Nitzsch, 1838 = M. piageti Harrison.
- 41. parumpilosa Piaget, Pédiculines, 1880, p. 421, Pl. 33, f. 6. (Trichoglossus ornatus.)
- 42. \*piageti Nom. nov. for pallida Piaget, 1885, nec Nitzsch, 1838. (Epimachus albus) [5].
- **43.** picae Denny, Anoplur. Brit., 1842, p. 213, Pl. 18, f. 6. (Corvus pica.)
- **44.** pilosa Piaget, *Pédiculines*, 1880, p. 432, Pl. 33, f. 9. (*Corvus senex.*)
- **45.** platygaster Giebel, Ins. Epiz., 1874, p. 290. (Scythrops novaehollandiae.)
- 46. pullula Piaget, Pédiculines, Suppl., 1885, p. 105, Pl. 11, f. 6. (Artamia bernieri.)
- 47. quadrifasciata Piaget, Pédiculines, 1880, p. 440, Pl. 35, f. 6. (Passer domesticus.)
- 48. ridulosa Kell. & Chap., New Mallophaga, iii, 1899, p. 135, Pl. 9, f. 4. (Dendroica aestiva.)
- **49.** robsoni Cummings, *Bull. Ent. Res.*, 1914, p. 169, f. 7. (*Gymnocorax senex.*) (? = pilosa Piaget. L. H.)
- 50. rustica Nitzsch in Giebel, Ins. Epiz., 1874, p. 288. (Hirundo rustica and other swallows.)
- 51. saturata Piaget, Pédiculines, Suppl., 1885, p. 96, Pl. 10, f. 6. (Corvus enca.)
- 52. sjoestedti Kellogg, Schwed. Exp. Kilimandjaro, 1910, p. 50, Pl. 7, f. 7. (Corvus scapulatus, Corvultur albicollis.)
- subaequalis Lyonet (De Haan), Mém. Mus., xviii, 1829, p. 266, Pl. 4,
   f. 5. (Corvus corone) [2, 4].
- 54. trinota Piaget, Pédiculines, 1880, p. 431, Pl. 33, f. 10. (Corvus validissimus.)
- 55. trithorax Piaget, Pédiculines, Suppl., 1885, p. 97, Pl. 10, f. 8. (Corvus macrorhynchus.)
- **56.** victrix Waterston, Ent. Month. Mag., 1915, p. 13, f. 2. (*Rhamphastos* sp. ? tocard.)

### Genus 13. Somaphantus Paine.

1. lusius Paine, Smithsonian Misc. Coll., lxi, 1914, p. 2, f. 1. (Numida ptilorhyncha.)

#### Genus 14. Machaerilaemus Harrison.

- 1. laticorpus Carriker, Univ. Nebr. Stud., iii, 1903, p. 190, Pl. 7, f. 5. (Thamnophilus dollatus.)
- 2. latifrons Harrison, Parasitology, vii, 1915, p. 390, f. 1-4. (Poephila gouldiae.)

## Genus 15. Tetrophthalmus Grosse.

- bursaepelecanae Perry, Proc. Lit. Phil. Soc. Liverpool, xxx, 1876,
   p. lxxx. (Pelecanus fuscus.)
- 2. chilensis Grosse, Zeit. f. wiss. Zool., xlii, 1885, p. 530. (Pelecanus sp. Chili.)
- 3. consanguineus Piaget, Notes Leyd. Mus., vi. 1884, p. 111. (Pelecanus erythrorhynchus.)
- incompositus Kell. & Chap., New Mallophaga, iii, 1899, p. 123, Pl. 8,
   f. 4. (Phalacrocorax penicillatus. Straggler from a pelican. L. H.)
- 1. impar Kellogg, New Mallophaga, i, 1896, p. 165.

  (Pelecanus erythrorhynchus) as a Menopon, sub-species of M. titan, nec M. impar Piaget, 1885.
- 5. linearis Kellogg, New Mallophaga, i, 1896, p. 165. (Pelecanus californicus.)
- 6. perale Leidy, Proc. Acad. Nat. Sci. Phila., 1878, p. 100. (Pelecanus trachyrhynchus) [2].
- 2. ragazzii Picaglia, Atti d. Soc. Nat. Modena, Rend. d. Adunanze, ii, 1884, p. 105. (Pelecanus trachyrhynchus)=T. perale Leidy.
- 7. titan Piaget, Pédiculines, 1880, p. 503, Pl. 40, f. 7. (Pelecanus onocrotalus.)

### Genus 16. Dennyus Neumann.

- 1. bruneri Carriker, Univ. Nebr. Stud., iii, 1903, p. 55. (Aeronautes melanoleucus) [4].
- 1. burmeisteri Denny, Anoplur. Brit., 1842, p. 230, Pl. 22, f. 5.  $(Cypselus \ apus) = D. \ truncatus \ Olfers.$
- 2. dubius Kellogg, New Mallophage, ii, 1896, p. 240, Pl. 73, f. 6. (Chaetura pelagica.)

- 3. latifrons Carriker & Shull, Ent. News, xxi, 1910, p. 56, Pl. 5, f. 4. (Riparia riparia.)
- 4. meridionalis Carriker, Univ. Nebr. Stud., iii, 1903, p. 178. (Chaetura griseiventris.)
- 5. minor Kellogg and Paine, Rec. Ind. Mus., x, 1914, p. 242. (Cypselus affinis.)
- 2. pulicaris Nitzsch in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 304. (Cypselus apus) = D. truncatus Olfers.
- 3. tibialis Piaget, Pédiculines, 1880, p. 576, Pl. 48, f. 5. (Cypselus apus) = D. truncatus Olfers.
- 4. tibialis Carriker, Journ. N. Y. Ent. Soc., x, 1902, p. 225, Pl. 22, f. 4, 5. (Aeronautes melanoleucus) nec Piaget, 1880.

  = D. bruneri Carriker.
- 6. truncatus Olfers, De vegetativis, etc., 1816, p. 91. (Cypselus apus) [1, 2, 3].

#### Genus 17. Trinoton Nitzsch.

- 1. aculeatum Piaget, Pédiculines, Suppl., 1885, p. 136, Pl. 15, f. 1. (Dendrocygna viduata.)
- 2. anserinum Fabricius, Syst. Antl., 1805, p. 345. (Anser cinereus) [1, 5, 6].
- 1. anseris Sulzer, Abg. Ges. Ins., 1776, Pl. 29, f. 4, nec Ped. anseris Linn. = anserinum Fabricius.
- 3. biguttatum Rudow, Zeit. f. ges. Nat., xxvii, 1866, p. 467.

  (Tinamus bannaquira.) (Probably not a Trinoton. L. H.)
- 2. bursaepelecanae Perry, see Tetrophthalmus.
- 3. citrinellae [Denny] Gervais, see Menopon.
- 4. clangulae O. Fabricius, Faun. Groen., 1780, p. 217. (Clangula chrysophíhalmus)=T. querquedulae Linn.
- 5. conspurcatum Nitzsch in Burmeister, Handbuch, ii, 1838, p. 440. (Anser, Cygnus) = T. anserinum Fabricius.
- 6. continuum Piaget, Pédiculines, 1880, p. 591.
  (Anser domesticus) = T. anserinum Fabricius.
- 7. cucullare [Nitzsch] Gervais, see Myrsidea.
- 4. femoratum Piaget, Pédiculines, 1880, p. 593, Pl. 49, f. 4. (Phoenicopterus antiquorum.)
- 3. fulvocinctum [Denny] Gervais, see Menopon.
- 9. fulvomaculatum [Denny] Gervais, see Menopon.
- 10. giganteum [Denny] Gervais, see Menopon.
- 11. gracile Grube, Sib. Reise, Zool., i, p. 494, Pl. 32, f. 6, (Anas spp.) = T. querquedulae Linn.

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- 5. intermedium Piaget, Pédiculines, 1880, p. 595, Pl. 49, f. 5. (Tadorna radjah.)
- 12. lari Degeer, Mém. Hist. Ins., vii, 1778, p. 77, Pl. 4, f. 12 = T. querquedulae Linn.
- 6. lituratum Nitzsch in Burmeister, Handbuch, ii, 1838, p. 441. (Mergus albellus.)
- 13. luridum Nitzsch in Burmeister, Handbuch, ii, 1838, p. 441. (Many ducks) = T. querquedulae Linn:
- 7. minus Osborn, Bull. Div. Ent., 1896, p. 248. (Oidemia sp.)
- 14. mesoleucum [Nitzsch] Gervais, see Myrsidea.
- 15. minutum [Nitzsch] Gervais, see Menopon.
- 16. nigropleurum [Denny] Gervais, see Menopon.
- 8. nigrum Le Souëf, Vict. Nat., xix, 1902, p. 90. (Chenopsis atrata.)
- 17. obscurum Stephens, Catalogue, 1829, p. 334. Nom. nud.
- 18. perdicis [Denny] Gervais, see Menopon.
- 19. phanerostigmaton [Nitzsch] Gervais, see Menopon.
- 20. pici [Denny] Gervais, see Menopon.
- 21. pygmaeum Kolenati, Melet. Ent., v, 1846, p. 139, Pl. 19, f. 5. (Carbo pygmaeus. Straggler, L. H.) = T. querquedulae Linn.
- 9. querquedulae Linné, Syst. Nat., 1758, p. 612. (Anas querquedula) [4, 11, 12, 13, 21, 24].
- 22. scopulacorne [Denny] Gervais, see Pseudomenopon.
- 23. sinuatum [Denny] Gervais, see Menopon.
- 10. spinosum Piaget, *Pédiculines*, 1880, p. 596, Pl. 49, f. 6.

(Mareca penelope.)

- 24. squalidum Denny, Anoplur. Brit., 1842, p. 235, Pl. xvii, f. 3.  $(Anser\ albifrons) = T$ . querquedulae Linn.
- 25. stramineum [Nitzsch] Gervais, see Menopon.
- 11. stramineum Giebel, Ins. Epiz., 1874, p. 302. (Hirundo americana.)
- 26. troglodytis [Denny] Gervais, see Menopon.

#### Genus 18. Eureum Nitzsch.

- 1. cimexoides [Nitzsch] Gervais, Aptères, iii, p. 327 = cimicoides Nitzsch.
- 1. cimicoides Nitzsch in Burmeister, *Handbuch*, ii, 1838, p. 441. (Cypselus apus) [1].
- 2. malleus Nitzsch in Burmeister, Handbuch, ii, 1838, p. 441. (Hirundo rustica.)

### Genus 19. Pseudomenopon Mjöberg.

- 1. cinereum Piaget, Pédiculines, Suppl., 1885, p. 111, Pl. 12, f. 3. (Himantornis haematopus.)
- 2. costaricense Carriker, Univ. Nebr. Stud., ii, 1903, p. 178. (Porzana cinereiceps.)
- 3. insolens Kellogg, New Mallophaga, i, 1896, p. 116, Pl. 15, f. 3, 4. (Colymbus nigricollis. ? Straggler, L. H.)
- majus Piaget, Pédiculines, 1880, p. 480, nec p. 441.
   (Fulica atra.)
- 4. pacificum Kellogg, New Mallophaga, i, 1896, p. 166. (Fulica americana.)
- **5.** par Kellogg, New Mallophaga, i, 1896, p. 166. (Aechmophorus occidentalis.)
- 2. scopulacorne Denny, Anoplur. Brit., 1842, p. 221, Pl. 18, f. 9. (Rallus aquaticus) = tridens Nitzsch.
- tridens Nitzsch in Burmeister, Handbuch, ii, 1838, p. 440.
   (Gallinula chloropus and other rails) [2].

### Sub-family d. Ancistroninae Harrison.

#### Genus 20. Ancistrona Westwood.

- 1. giyas Piaget, Tijd. v. Ent., xxvi, 1883, p. 152, Pl. 9, f. 1. (Fulmarus glacialis) = vagelli Fabricius.
- 2. procellariae Westwood, Thes. Ent. Oxon., 1874, p. 197, Pl. 37, f. 4. (Daption capensis) = vagelli Fabricius.
- vagelli Fabricius, Mant. Ins., 1787, p. 369.
   (Fulmarus glacialis) [1, 2].

# Family v. Laemobothriidae Mjöberg.

#### Genus 21. Laemobothrion Nitzsch.

- africanum Kellogg, Schwed. Zool. Exp. Kilimandjaro, 1910, p. 47,
   Pl. 7, f. 6. (Pseudogyps africanus.)
- 1. africanum Kellogg and Ferris, Ann. Durban Mus., i, 1915, p. 147, Pl. 15, f. 1, nec Kellogg, 1910.

(Theristicus hagedasch=Hagedaschia hagedasch.)

- 2. albicillae Leach MS., in Denny, List. Brit. An., 1852, p. 23. (Haliaetus albicilla.) Nom. nud.=tinnunculi Linn.
- 3. atrum Nitzsch in Denny, Anoplur. Brit., 1842, p. 240. (Fulica atra) = nigrum Burmeister.

- 2. brasiliense Rudow, Zeit. f. ges. Nat., xxxiv, 1869, p. 405.

  (Halieus brasiliensis=Phalacrocorax vigua.
- 4. buteonis Fabricius, Gen. Ins., 1776, p. 309.
  (Buteo vulgaris) = tinnunculi Linn.
- 3. buteonivorus Packard, 6th Ann. Rept. U. S. Geol. Surv., 1872, p. 733 f. 61. (Buteo swainsoni.) (As a Nirmus. L. H.)
- 4. chloropodis Schrank, Fauna Boica, 1803, p. 189. (Gallinula chloropus.)
- 5. circi Geoffroy, Hist. Abr. Ins., 1762, ii, p. 598, Pl. 20, f. 1. (Circus aeruginosus) = tinnunculi Linn.
- 5. cubense Kellogg and Ferris, Ann. Durban Mus, i, 1915, p. 149
  (Aramus giganteus holostictus.)
- 6. delogramma Carriker, Univ. Nebr. Stud., iii, 1903, p. 159, Pl. 4, f. 6 (Gypagus papa) = glutinans Giebel.
- 6. emarginatum Piaget, Pédiculines, 1880, p. 584, Pl. 48, f. 8. (Gallinula haematopus.)
- 7. giganteum Nitzsch in Burmeister, Handbuch, ii, 1838, p. 441. (Haliaetus albicilla) = tinnunculi Linn.
- 8. gigas Nitzsch in Giebel, Zeit. f. ges. Nat., xvii, 1861, p. 518. (Neophron percnopterus.) Nom. nud. = percnopteri Gervais.
- 7. gilvum Burmeister in Denny, Anoplur. Brit., 1842, p. 240. (Ardea (Botaurus) stellaris.)
- 8. glutinans Nitzsch in Giebel, Zeit. f. ges. Nat., xvii, 1861, p. 518. (Gypagus papa) [6].
- 9. gracile Nitzsch in Giebel, Zeit. f. ges. Nat., xvii, 1861, p. 519 (Vultur leucocephalus.) Nom. nud.
- 10 gracile Giebel, Ins. Epiz., 1874, p. 254, nec Nitzsch, 1861 = gracilentum Harrison.
- 9. \*gracilentum Nom. nov. for gracile Giebel, Ins. Epiz., 1874, p. 254 nec Nitzsch, 1861.

### (Psophia crepitans) [10].

- 10. gypsis Kellogg, Ent. News, xvii, 1906, p. 63, f. (Gyps. kolbi.)
- 11. hasticeps Olfers, De Veget., 1816, p. 87. (Falco tinnunculus) = tinnunculi Linn.
- 12. hastipes Nitzsch in Burmeister, Handbuch, ii, 1838, p. 442. (Falco tinnunculus) = tinnunculi Linn.
- 13. indicum Giebel, Zeit. f. ges. Nat., xxviii, 1866, p 396. (Vultur (Gyps) indicus.) Nom. nud.
- 11. lathrobium Kolenati, Melet. Ent., v, 1846, p. 139, Pl. 19, f. 6. (Vultur sp.)

- 14. laticolle Nitzsch in Denny, Anoplur. Brit., 1842, p. 239, Pl. 23, f. 4. (Falco subbuteo) = tinnunculi Linn.
- 15. lichtensteini Nitzsch in Giebel, Ins. Epiz., 1874, p. 253, Pl. 18, f 8. (Struthio camelus.) Nom. nud.
- 12. loomisi Kell. & Chap., Journ. N. Y. Ent. Soc., x, 1902, p. 23, Pl. 3, f. 3. (Anser albifrons gambeli.)
- 16. maximum Scopoli, Ent. Carn., 1763, p. 382 = tinnunculi Linn.
- 17. mystax Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 396, see Ricinus.
- 18. nigrolimbatum Giebel, Ins. Epiz., 1874, p. 252.

  (Circus spp.) = tinnunculi Linn.
- **13. nigrum** Burmeister, *Handbuch*, ii, 1838, p. 442. (*Fulica atra*) [3].
- 19. nocturnum Giebel, Ins. Epiz., 1874, p. 302. (Strix aluco) = tinnunculi Linn.
- 14. oligothrix Carriker, Univ. Nebr. Stud., iii, 1903, p. 161, Pl. 4, f. 7. (Buteo borealis costaricensis.)
- **15.** opisthocomi Cummings, Bull. Ent. Res., 1913, p. 42, f. 5. (Opisthocomus cristatus (hoazin).)
- **16.** pallescens Kellogg, Mallophaga in Wytsman's Gen. Insect., 1908, p. 74, nom. nov. for pallidum Piaget, 1885, p. 132, nec Giebel, 1874. (Ibis olivacea) [21].
- 20. pallidum Giebel, Ins. Epiz., 1874, p. 250.
  - (Neophron percnopterus) = percnopteri Gervais.
- pallidum Piaget, Pédiculines, Suppl., 1885, p. 132, Pl. 14, f. 4.
   (Ibis olivacea) nec Giebel, 1874 = pallescens Kellogg.
- 17. percnopteri Gervais, *Aptères*, iii, 1847, p. 321, Pl. 48, f. 6. (*Neophron percnopterus*) [8, 20].
- **18. punctatum** Gervais in Gay, *Hist. fis. Chile*, 1849, p. 104. (Several undetermined accipitrines.)
- 19. setigerum Piaget, Notes Leyden Mus., xi, 1889, p. 35, Pl. 2, f. 2. (Ibis cayennensis.)
- 20. simile Kellogg, New Mallophaga, i, 1896, p. 153, Pl. 14, f. 1, 2. (Colymbus nigricollis californicus.)
- **21.** tinnunculi Linné, Syst. Nat., 1758, p. 612. (Falco tinnunculus) [2,4,5,7,11,12,14,16,18,19].
- **22.** titan Piaget, *Pédiculines*, 1880, p. 578, Pl. 49, f. 1. (*Milvus aetolius.*)
- 22. tridens Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 396, see Pseudomenopon.
- 23. validum Giebel, Ins. Epiz., 1874, p. 251. (Neophron monachus.)

- 23. vulturis Fabricius, Syst. Ent., 1775, p. 806. Not recognisable.

  Discard.
- 24. vulturis Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 309. Nom. nud.

### Family vi. Ricinidae Neumann.

### Genus 22. Ricinus Degeer.

- 1. agonus Nitzsch, Zeit. f. ges. Nat., xxvii, 1866, p. 121. (Sylvia (Erithacus) rubecula)=rubeculae Schrank.
- 1. angulatus Kellogg, New Mallophaga, ii, 1896, p. 515, Pl. 70, f. 5. (Several passerines, America.)
- 2. angulicollis [Giebel] Enderlein, Deutsch. Sud-polar Exp., Zool., ii, p. 448, see Esthiopterum.
- 2. arcuatus Kellogg and Mann, Ent. News, 1912, p. 65. (Tyrannus vociferus.)
- 3. australis Kellogg, New Mallophaga, ii, 1896, p. 516, Pl. 70, f. 4. (Tanagra versicolor.)
- 4. bombycillae Denny, Anoplur. Brit., 1842, p. 242, Pl. 23, f. 5. (Bombycilla garrula) [6].
- 5. cherriei Durrant, Ohio Nat., vii, 1906, p. 36, f. E, F. (Melozone cabanisi.)
- 6. clypeatus Mjöberg, Arkiv f. Zool., vi, 1910, p. 60. (Alauda alpestris.)
- 7. diffusus Kellogg, New Mallophaga, ii, 1896, p. 518, Pl. 70, f. 3. (Several passerines, America.)
- 8. dolichocephalus Scopoli, Ent. Carn., 1763, p. 382. (Coracias, Oriolus) [8, 12].
- 3. doratophorus Carriker, see Trochiloecetes.
- 9. elongatus ()lfers, De regetativis, etc., 1816, p. 88. (Turdus viscivorus) [1].
- 10. fasciatus Piaget, Pédiculines. Suppl., 1885, p. 134, Pl. 14, f. 6. (Larus capistratus. Straggler, L. H.)
- 11. frenatus Nitzsch in Burmeister, *Handbuch*, ii, 1838, p. 442. (*Regulus verus.*)
  - 4. fringillae Degeer, Mém. Hist. Ins., vii, 1778, p. 71. (Fringilla coelebs) = nitidissimus Nitzsch.
  - 5. fuscolaminulatus Enderlein, *Deutsch. Sud-polar Exp.*, x, ii, 1909, p. 447, see *Degceriella*.
- 12. hastatus Osborn, Ohio Nat., ii, 1902, p. 203, Pl. 14, f. 3. (Junco hyemalis, J. aikeni.)
  - 6. intermedius Piaget, Pédiculines, 1880, p. 605, Pl. 50, f. 4. (Bombycilla garrula) = bombycillae Denny.

- 6 a. intermedius Uchida, Annotat. Zool. Japon., ix, 1915, p. 68, fig. 1.
  Invalidated by intermedius Piaget.
- 13. invadens Kellogg, New Mallophaga, iii, 1899, p. 50. (Chiroxiphia lanceolata.)
- 14. irascens Nitzsch in Burmeister, *Handbuch*, ii, 1838, p. 442. (*Fringilla coelebs.*)
- 14a. japonicus Uchida, Annotat. Zool. Japon.. ix, 1915, p. 70.
- 15. jiminezi Carriker, Univ. Nebr. Stud., iii, 1903, p. 163, Pl. 5, f. 1. (Amizillis tzacatl, Selasphorus flammula.)
- 16. leptosomus Carriker, Univ. Nebr. Stud., iii, 1903, p. 166, Pl. 5, f. 2. (Myiarchus lawrenci, Myiozetetes cayanensis.)
- 17. lineatus Osborn, Bull. 5, Div. Ent., 1896, p. 248. (Trochilus colubris.)
- 18. longetarsatus Piaget, Tijd. v. Ent., xxxviii, 1895, p. 101. (? Lamprotornis sp.)
- 19. maculatus Piaget, Pédiculines, Suppl., 1885, p. 133, Pl. 14, f. 5. (Apternus crissoleucus.)
- 20. marginatus Children, App. Back's Exp., 1837, p. 539. (Host unknown.)
- 21. merulae Durrant, Ohio Nat., vii, 1906, p. 35, f. 1 d. (Merula migratoria.)
- 22. microcephalus Kellogg, New Mallophaga, ii, 1896, p. 530, Pl. 70, f. 1. (Carpodacus mexicanus.)
- 22a. mugimaki Uchida, Annotat. Zool. Japon., ix, 1915, p. 70, fig. 2.
- 7. mystax Nitzsch in Burmeister, Handbuch, ii, 1838, p. 442. (Turdus pilaris) = elongatus Olfers.
- 23. nigrolimbatus Mjöberg, Arkiv f. Zool., vi, 1910, p. 58. (Calamoherpe sp.)
- 24. nitidissimus Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 395. (Emberiza citrinella) [4].
- 8. orioli Fabricius, Gen. Ins., 1776. p. 309.
  (Oriolus galbula) = dolichocephalus Scopoli.
- 25. pallens Kellogg, New Mallophaga, iii, 1899, p. 49, Pl. 4, f. 7. (Protonotaria citrea, Elainea subpagana.)
- 26. pallidus Kellogg, New Mallophaga, ii, 1896, p. 519.
  (Junco spp.) Sub-species of R. diffusus Kell.
- 27. picturatus Carriker, Journ. N. Y. Ent. Soc., x, 1902, p. 224, Pl. 23,
   f. 3. (Helminthophila spp.)
- 28. praetextus Nitzsch in Giebel, Ins. Epiz., 1874, p. 257. (Campylops (Diglossa) mexicanus, Diglossa baritula.)
  - 9. prominens Kellogg and Chapman, see Trochiloecetes.

- 10. pterocephalus Olfers, De vegetativis, etc., 1816, p. 91. (Sylvia (Erithacus) rubecula)=rubeculae Schrank.
- 29. rubeculae Schrank, Beyträge, 1776, p. 115, f. 4. (Sylvia (Erithacus) rubecula) [1, 10].
- 30. serratus Durrant, Ohio Nat., vi, 1906, p. 528, f. 1 b. (Otocorys alpestris.)
- 11. similis Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 395. Nom. nud. (Sylvia suecica.)
- 31. subangulatus Carriker, Univ. Nebr. Stud., iii, 1903, p. 168, Pl. 5, f. 3. (Tanagra cana.)
- 32. subhastatus Durrant, Ohio Nat., vi, 1906, p. 527, f. 1 a. (Pipilo maculatus.)
- 33. sucinaceus Kellogg, New Mallophaga, ii, 1896, p. 514, Pl. 70, f. 2. (Empidonax difficilis.)
- 12. sulphureus Nitzsch in Burmeister, Handbuch, ii, 1838, p. 442. (Oriolus galbula) = dolichocephalus Scopoli.
- 34. thoracicus Packard, Amer. Nat., iv, 1870, p. 94, Pl. 1, f. 5. (Emberiza nivalis.)
- 13. thoracicus Piaget, Pédiculines, 1880, p. 606, Pl. 51, f. 1. (Centropus eurycercus) nec Packard, 1870 = tinctus Harrison.
- 35. \*tinctus Nom. nov. for thoracicus Piaget, 1880, nec Packard, 1870. (Centropus eurycercus) [13].

#### Genus 23. Trochiloecetes Paine and Mann.

- 1. doratophorus Carriker, *Univ. Nebr. Stud.*, iii, 1903, p. 43, Pl. 5, f. 4. (*Selasphorus flammula.*)
- 2. emeliae Paine and Mann, Psyche, xx, 1913, p. 21. (Thalurania furcatoides.)
- 3. prominens Kell. & Chap., New Mallophaga, iii, 1899, p. 137, Pl. 9, f. 5. (Calypte costae.)

Super-family ii. Ischnocera Kellogg.

Family vii. Trichodectidae Burmeister.

Genus 24. Trichodectes Nitzsch.

- 1. acuticeps Neumann, Arch. Parasit., v, 1902, p. 601. (Viverra genetta.)
- 2. acutirostris Stobbe, Sitz. Ges. naturf. Freunde, 1913, p. 378, f. 7. (Herpestes galera.)
- 1. antilopes Gurlt, Arch. f. Naturgesch., xiii, 1857, p. 278. Nom. nud.

- 3. appendiculatus Piaget, Pédiculines, 1880, p. 403, Pl. 33, f. 1. (Antilope subgutturosa.)
- 4. armatus Neumann, Arch. Parasit., 1913, p. 608, f. 1-4. (Eriodes arachnoides.)
- 5. aucheniae-lamae 'Torreggiani, 1910.' Quoted in Neveu-Lemaire, Parasit. Anim. Dom., Paris, 1912, p. 1108. (Auchenia Ilama.) (?=breviceps Rudow. L. H.)
- 6. baculus Schömmer, Über d. Mallophagen, 1913, p. 26. (Capra hircus.)
- 7. barbarae Neumann, Arch. Parasit., 1913, p. 616, f. 9. (Galictis barbara.)
- 8. bovis Linné, Syst. Nat., 1758, p. 611. (Bos taurus) [32, 37].
- 9. breviceps Rudow, Zeit. f. ges. Nat., xxii, 1866, p. 110, Pl. 5, f. 2. (Auchenia Ilama.)
- 2. caballi Leach MS., in Denny, List. Brit. An., 1852, p. 30. (Equus caballus.) Nom. nud., = pilosus Giebel.
- 3. californicus Chapman, Ent. News, viii, 1897, p. 186, Pl. 9, f. 1. (Perognathus sp.) = T. geomydis Osborn.
- 10. canis Degeer, Mém. Hist. Ins., vii, 1778, p. 81, Pl. 4, f. 16. (Canis familiaris) [14, 23].
- 11. caprae Gurlt, Mag. f. ges. Thierheilk., ix, 1843, p. 3, Pl. 1, f. 2. (Capra hircus) [5, 6, 35].
  - 4. caprae Packard, Amer. Nat., iv, 1870, p. 96, f. 28, nec Gurlt, 1843. (Capra hircus.)
- **12. castoris** Osborn, *Bull. Div. Ent.*, 1896, p. 241, f. 149. (*Castor castoris.*)
- 13. cervi Linné, Syst. Nat. 1758, p. 611. (Cervus elaphus) [18, 34].
  - 5. climacium Nitzsch, in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 292. (Capra hircus) = T. caprae Gurlt.
  - 6. climax Nitzsch, in Gervais, Hist. Ins. Apt., iii, 1847, p. 313, Pl. 48, f. 3.  $(Capra\ hircus) = T.\ caprae\ Gurlt.$
- 14. colobi Kell., Schwed. Zool. Exp. Kilimandjaro, 1910, p. 44, Pl. 7, f. 1. (Colobus caudatus.)
- 15. cornutus Gervais, *Hist. Ins. Apt.*, iii, 1847, p. 315, Pl. 49, f. 10. (Antilope dorcas, A. archica) [17].
  - 7. crassipes Rudow, Zeit. f. ges. Nat., xxvii, 1866, p. 111, Pl. 7, f. 1. (Capra angoriensis) = T. limbatus Gervais.
  - 8. crassus Nitzsch, in Denny, Monog. Anoplur. Brit., 1842, p. 187, Pl. 17, f. 3.

 $(Meles\ taxus) = T.\ melis\ Fabricius.$ 

- 9. crenelatus Piaget, see Damalinia.
- 10. diacanthus Ehrenberg, see Eutrichophilus.
- 11. dubius Nitzsch, in Denny, Monog. Anoplur. Brit., 1842, p 190, Pl. 17, f 2.

 $(Mustela\ vulgaris) = T.\ mustelae\ Schrank.$ 

16. equi Linné, Syst. Nat., 1758, p. 612.

(Equus caballus) [25, 28, 38].

- 12. equi Denny, Monog. Anoplur. Brit., 1842. p. 191, Pl. 17, f. 7. (Equus caballus) nec Linné, 1758, = T. pilosus Giebel.
- 17. exilis Nitszch, in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 87. (Lutra vulgaris.)
- expansus Dugès, Mem. Soc. Ant. Alzate, xviii, 1902, p. 186.
   (Geomys sp.) Sub-species of T. geomydis Osborn.
- 19. forficula Piaget, Pédiculines, 1880, p. 400, Pl. 32, f. 7. (Cervus porcinus.)
- 20. gastrodes Cummings, Ann. Mag. Nat. Hist., xvii, 1916, p. 94, ff. (Choloepus didactylus.)
- 21. geomydis Osborn, Bull. Div. Ent., 1891, p. 54, f. 42. (Geomys bursarius, Thomomys bottae) [3].
- 22. hermsi Kellogg and Nakayama, *Psyche*, xxii, 1915, p. 34. (*Capra hircus*.)
- 13. hystricus 'Burmeister.' Nom. nud. quoted in Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 280.
- 23. inaequalemaculatus Piaget, Pédiculines, Suppl., 1885, p. 88, Pl. 9, f. 7. (Auchenia guanaco.)
- 24. inaequalis Piaget, Pédiculines, 1880, p. 388, Pl. 32, f. 3. (Herpestes ichneumon.)
- 25. interruptofasciatus Kellogg and Ferris, Stanford Univ. Publ., 1915, p. 61, Pl. 7, f. 1-3.

  (Taxidea taxus.)
- 14. latus Nitzsch, in Burmeister, Handbuch, ii, 1838, p. 436. (Canis familiaris) = T. canis Degeer.
- leporis Ponton, Month. Micr. Journ., vi, 1871, p. 8, Pl. 91, f. 4.
   (A straggling Colpocephalum, unrecognisable, discard. L. H.)
- 26. limbatus Gervais, Hist. Ins. Apt., iii, 1847, p. 313, Pl. 48, f. 4. (Capra angoriensis) [7, 19, 26].
- 16. lipeuroides Mégnin, see Eutrichophilus.
- 17. longiceps Rudow, Zeit. f. ges. Nat., xxvii, 1866, Pl. 6, f. 1. (Antilope arabica) = T. cornutus Gervais.

- 18. longicornis Nitzsch, in Burmeister, Handbuch, ii, 1838, p. 436. (Cervus elaphus) = T. cervi Linné.
- 27. madagascariensis Mjöberg, Arkiv f. Zool., vi. 1910, p. 64, f. 38-39. (Eupleres goudoti.)
- 19. major Piaget, Pédiculines, Suppl., 1885, p. 86. (Capra angoriensis) = T. limbatus Gervais.
- 28. mambricus Rudow, Zeit. f. ges. Nat., xxvii, 1866, p. 111, Pl. 6, f. 2. (Hircus mambricus.)
- 29. matschiei Stobbe, Sitz. Ges. nat. Freunde, viii, 1913, p. 372. (Lutra matschiei.)
- **30.** melis Fabricius, *Syst. Antl.*, 1805, p. 341. (*Meles taxus*) [8].
- 31. mephitidis Packard, 6th Ann. Rept U.S. Geol. Surv., 1872, p. 732, f. 60. (Mephitis mephitica) [22].
- 20. mexicanus Rudow, see Eutrichophilus.
- **32**. **meyeri** Taschenberg, *Nova Acta*, xliv, 1882, p. 222, Pl. 7, f. 13. (Host unknown.)
- 21. micropus Giebel, Ins. Epiz., 1874, p. 54, = T. vulpis Denny. (Canis vulpes.)
- 22. minutus Paine, Ent. News, xxiii, 1912, p. 439.

  (Putoris novaeboracensis) = T. mephitidis Packard.
- 33. mjöbergi Stobbe, Sitz. Ges. nat. Freunde, viii, 1913, p. 379, f. 8. (Mycticebus borneanus.)
- 34. mungos Stobbe, Sitz. Ges. nat. Freunde, viii, 1913, p. 375, f. 5. (Herpestes affinis, H. badius.)
- **35.** mustelae Schrank, Faun. Boic., 1803, p. 186. (Mustela vulgaris) [11, 29, 31].
- **36.** nasuatis Osborn, *Ohio Nat.*, ii, 1902, p. 178, Pl. 11, f. 3. (*Nasua narica.*)
- 37. neumanni Stobbe, Ent. Rundschau, 1913, p. 112. (Dendrohyrax neumanni.)
- 38. ocellatus Piaget, Pédiculines, 1880, p. 398.
  - (Equus burchelli.)
- **39.** octomaculatus Paine, *Ent. News*, xxiii, 1912, p. 438. (*Procyon psora*) [27, 39].
- 23. octopunctatus Leach MS., in Denny, List. Brit. An., 1852, p. 29. (Canis familiaris.) Nom. nud. = T. canis Degeer.
- **40.** ovis Linné, Syst. Nat., 1758, p. 611. (Ovis aries) [24, 36].
- 24. ovisarietis Schrank, Faun. Boic., 1803, p. 187, = T. ovis Linné.
- **41.** painei Kellogg and Nakayama, *Psyche*, xxi, 1914, p. 90, f. 1. (Host unknown. ? Goat.)

- **42.** pallidus Piaget, *Pédiculines*, 1880, p. 405, Pl. 32, f. 9. (*Nasua fusca.*)
- **43.** parallelus Osborn, Bull. Div. Ent., 1896, p. 240, f. 148. (Cariacus virginianus.)
- 25. parumpilosus Piaget, Pédiculines, 1880, p. 397, Pl. 32, f. 5.  $(Equus\ caballus) = T.\ egui\ Linné.$
- 26. penicillatus Piaget, Pédiculines, 1880, p. 406, Pl. 32, f. 10. (Capra angoriensis.) Straggler on Petrogale penicillata) = T. limbatus Gervais.
- **44.** peregrinus Taschenberg, *Nova Acta*, xliv, 1882, p. 218, Pl. 7, f. 10. (*Ovis aries*. Straggler on *Mycteria crumenifera*.)
- **45.** pilosus Giebel, *Ins. Epiz.*, 1874, p. 59. (*Equus caballus, E. asinus*) [2, 12].
- 46. pinguis Nitzsch, in Burmeister, Handbuch, ii. 1838, p. 435. (Ursus arctos.)
- 27. procyonis Neumann, Arch. Parasit., 1913, p. 626, f. 14, nom. nov. for T. vulpis Taschenberg, nec Denny, = T. octomaculatus Paine.
- 28. pubescens 'Railliet,' error in Macqueen's Neumann's Parasites (1905) for T. vestitus Railliet, q.v.
- 47. puncium Piaget, Pédiculines, Suppl., 1885, p. 87, Pl. 9, f. 6. (Lamprotornis sp. Straggler. L. H.)
- 29. pusillus Nitzsch, in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 88. (Mustela vulgaris) = T. mustelae Schrank.
- 48. quadraticeps Chapman, Ent. News, viii, 1897, p. 185, Pl. 9, f. 2. (Urocyon virginianus.)
- 30. quadricornis Gay, Il Medico Veterinario, xxv, 1878, p. 494. (Equus caballus.) A Psocid, discard.
- 49. rammei Stobbe, Sitz. Ges. nat. Freunde, viii, 1913, p. 377, f. 6. (Herpestes galera.)
- 31. retusus Nitzsch, in Burmeister, Handbuch, ii, 1838, p. 436. (Mustela spp.) = T. mustelae Schrank.
- 50. riveti Neumann, Arch. Parasit., 1913, p. 614, f. 7, 8. (Canis magellanicus.)
- 32. scalaris Nitzsch, in Burmeister, Handbuch, ii, 1838, p. 436. (Bos taurus) = T. bovis Linné.
- 51. semiarmatus Neumann, Arch. Parasit., 1913, p. 611, f. 5. (Mycetes fuscus.)
- 33. setosus Giebel, see Eutrichophilus.
- 34. similis Denny, Monog. Anopl. Brit., 1842, p. 194, Pl. 17, f. 6. (Cervus elaphus) = T. cervi Linné.

- 35. solidus Rudow, Zeit. f. ges. Nat., xxvii, 1866, p. 112, Pl. 7, f. 2. (Goat, Guinea) = T. caprae Gurlt.
- 36. sphaerocephalus Olfers, De vegetativis, etc., 1816, p. 85.  $(Ovis \ aries) = T.$  ovis Linné.
- 52. subrostratus Nitzsch, in Burmeister, Handbuch, ii, 1838, p. 436. (Felis domestica.)
- **53.** tarandi Mjöberg, Arkiv f. Zool., vi, 1910, p. 66. (Cervus tarandus.)
- **54.** tarsatus Piaget, *Pédiculines*, 1880, p. 399. Sub-species of *T. equi* Linné. (*Horse*, Java.)
- 37. tauri Olfers, De vegetativis, etc., 1816, p. 85. Nom. nud. = T. bovis Linné.
- **55.** thoracicus Osborn, *Ohio Nat.*, ii, 1902, p. 178, Pl. 11, f. 4. (*Bassaris astuta.*)
- **56.** tibialis Piaget, *Pédiculines*, 1880, p. 399, Pl. 32, f. 6. (*Cervus dama.*)
- 57. tigris Ponton, Month. Micr. Journ., xxi, 1870, p. 147. (Felis tigris.)
- 58. truncatus Piaget, Pédiculines, 1880, p. 393. (Goat, Java.)
- **59.** univirgatus Neumann, *Arch. Parasit.*, 1913, p. 612, f. 6. (*Hyrax* sp.)
- 38. vestitus Railliet, Tr. Zool. M'ed. Agr., 1895, p. 835. (Equus caballus) = T. equi Linné.
- 60. viverriculae Stobbe, Sitz. Ges. nat. Freunde, viii, 1913, p. 375, f. 4. (Viverricula rasse.)
- 61. vosseleri Stobbe, Sitz. Ges. nat. Freunde, viii, 1913, p. 371, f. 2. (Potamochoerus demunis.)
- **62.** vulpis Denny, Monog. Anopl. Brit., 1842, p. 189, Pl. 17, f. 5. (Canis vulpes) [21].
- 39. vulpis Taschenberg, Nova Acta, 1882, p. 207, nec Denny, 1842. (Procyon lotor) = T. octomaculatus Paine.
- 63. zorillae Stobbe, Sitz. Ges. nat. Freunde, 1913, p. 374, f. 3. (Zorilla lybica.)

# Genus 25. Damalinia Mjöberg.

1. crenelata Piaget, Pédiculines, 1880, p. 402, Pl. 32, f. 8. (Antilope albifrons.)

# Genus 26. Eutrichophilus Mjöberg.

- 1. cercolabes Mjöberg, Arkiv f. Zool., vi, 1910, p. 72, Pl. 4, f. 7, 8 (Cercolabes prehensilis.)
- 2. coendu Stobbe, Deutsch. Ent. Zeit., 1913, p. 566, f. 5. (Coendu mexicanus.)

- 3. cordiceps Mjöberg, Arkiv f. Zool., vi, 1910, p. 75, Pl. 4, f. 5, 6. (Cercolabes prehensilis.)
- 4. diacanthus Ehrenberg, Symbolae Physicae, Hyrax, 1828. (Hyrax syriacus.)
- 5. lipeuroides Mégnin, Le Naturaliste, 1884, No. 62, p. 494. (Cervus mexicanus) [1, 2].
- 1. mazama Stobbe, Deutsch. Ent. Zeit., 1913, p. 562, nom. nov. for E. mexicanus Mjöberg, nec Rudow.

(Cervus mexicanus) = T. lipeuroides Mégnin.

- 6. mexicanus Rudow, Zeit. f. ges. Nat., xxvii, 1866, p. 109, Pl. 5, f. 1. (Cercolabes mexicanus.)
- 2. mexicanus Mjöberg, Arkiv f. Zool., vi, 1910, p. 79, nec Rudow, 1866. (Cervus mexicanus) = T. lipeuroides Mégnin.
- 7. minor Mjöberg, Arkiv f. Zool., vi, 1910, p. 77, Pl. 4, f. 3. (Cercolabes prehensilis.)
- 8. setosus Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 86. (Erethizon dorsatum.)

Genus 27. Eurytrichodectes Stobbe.

1. paradoxus Stobbe, Ent. Rundschau, xxx, 1913, p. 111, f. 3-5. (Dendrohyrax sp.)

Genus 28. Trichophilopterus Stobbe.

1. babakotophilus Stobbe, Ent. Rundschau, xxx, 1913, p. 105, f. 1, 2. (Lichonotus indri.)

Family viii. Nesiotinidae Harrison.

Genus 29. Nesiotinus Kellogg.

1. demersus Kellogg, Biol. Bull., v, 1903, p. 90, f. 3. (Aptenodytes longirostris.)

Family ix. Philopteridae Burmeister.

Sub-family e. Goniodinae [Mjöberg].

Genus 30. Goniodes Nitzsch.

- aberrans Carriker, Univ. Nebr. Stud., iii, 1903, p. 157, Pl. 4, f. 4, 5.
   (Tinamus robustus.)
- 2. aculeatus Piaget, Pédiculines, 1880, p. 266, Pl. 22, f. 2. (Momotus lessoni. Straggler. L. H.)
- 1. agonus Nitzsch, see Kelloggia.
- 2. aliceps Nitzsch, in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 389. (Crypturus tao) = G. oniscus &.
- 3. alienus Giebel, see Goniocotes.

- 3. assimilis Piaget, Pédiculines, 1880, p. 248. (Francolinus capensis.)
- 4. bankiva Piaget, Pédiculines, 1880, p. 269. Sub-species of G. dissimilis. (Gallus bankiva.)
- 5. bicolor Rudow, Beiträge, 1869, p. 26. (Penelope marail) [28].
- 4. bicuspidatus Piaget, Pédiculines, 1880, p. 278, Pl. 23, f. 3. (Tragopan satyrus) = G. spinicornis Nitzsch.
- 5. bituberculatus Rudow, Beiträge, 1869, p. 27.

(Tetrao medius) = G. chelicornis Nitzsch.

- 6. breviantennatus Piaget, Pédiculines, Suppl., 1885, p. 50, Pl. 5, f. 8. (Caccabis chukar.)
- 6. brevipes Giebel, see Austrogoniodes.
- 7. burnetti Packard, see Lipeurus.
- 7. cervinicornis Giebel, Ins. Epiz., 1874, p. 199. (Phasianus nycthemerus.)
- 8. chelicornis Nitzsch, in Lyonet, Mém. Mus., xviii, 1829, p. 268, Pl. 4, f. 7. (Tetrao urogallus) [5].
- 8. clypeiceps Giebel, see Goniocotes.
- 9. colchicus Denny, Anoplur. Brit., 1842, p. 158, Pl. 12, f. 4. (Phasianus colchicus, etc.)
- 9. colchici Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 388, nec Denny, 1842, = Goniocotes chrysocephalus Giebel.
- 10. complanatus Piaget, Pédiculines, 1880, p. 262, Pl. 21, f. 8.

(Tinamus obsoletus, T. variegatus) = Q (f. spinosus Piaget.

- 11. coniceps Taschenberg, see Ornicholax.
- **10.** coronatus Giebel, *Ins. Epiz.*, 1874, p. 302. (*Crypturus coronatus*) [24, 34].
- 11. cornutus Rudow, Beiträge, 1869, p. 26.

(Tribonyx ventralis. Straggler. L. H.)

- 12. corpulentus Kellogg and Mann, Ent. News, xxiii, 1912, p. 14. (Canachites canadensis.)
- 12. cupido Giebel, in Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 482. (Tetrao cupido) = G. tetraonis Denny.
- 13. curvicornis Nitzsch, in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 388. (Argusianus giganteus (argus).)
- 14. damicornis Nitzsch, Zeit. f. ges. Nat., xxvii, 1866, p. 119. (Columba palumbus, C. livia.)
- descrepans 'Kellogg and Paine,' quoted in Kellogg and Mann, Ent. News, xxiii, 1912, p. 14.

(Lagopus lagopus.) Cannot trace description. L.H.

- 14. dilatatus Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 479. (Tinamus bannaquira) = G. rotundatus Rudow.
- 15. diomedeae Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 308. Nom. nud.
- 15. dispar Nitzsch, in Burmeister, *Handbuch*, ii, 1838, p. 432. (*Perdix cinerea* (*perdix*).)
- 16. dissimilis Nitzsch, in Denny, Anoplur. Brit., 1842, p. 162, Pl. 12, f. 6. (Gallus domesticus.)
- 16. diversus Rudow, Beiträge, 1869, p. 28, = G. eximius Rudow. (Penelope nigra.)
- 17. elongatus Piaget, Pédiculines, 1880, p. 281, Pl. 23, f. 5. (Coturnix communis) [30, 35].
- 18. eurygaster Piaget, Pédiculines, Suppl., 1885, p. 53, Pl. 6, f. 1. (Lophophorus impeyanus.)
- 19. excavatus Piaget, Pédiculines, 1880, p. 280, Pl. 23, f. 4. (Tinamus canus.)
- 20. eximius Rudow, Beiträge, 1869, p. 25. (Oreophasis derbyana, Penelope nigra)[16,37].
- 17. falcicornis Nitzsch, in Burmeister, Handbuch, ii, 1838, p. 432. (Pavo cristatus) = G. pavonis Linné.
- 21. fasciatum Piaget, Pédiculines, 1880, p. 673, Pl. 56, f. 3. (Treron vernans, Eutrygon terrestris.)
- **22.** fimbriatus Neumann, *Arch. Parasit.*, xv, 1913, p. 629, f. 19, 20. (Host unknown.)
- 23. flaviceps Rudow, Beiträge, 1869, p. 28. (Perdix rubra) [42] = Caccabis rufa.
- 18. flavus Rudow, see Goniocotes.
- 19. gregarius Nitzsch, see Goniocotes.
- 20. haliei Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 308. Nom. nud.
- 21. heterocerus Nitzsch, in Giebel, Ins. Epiz., 1874, p. 195. (Tetrao tetrix) = G. tetraonis Linné.
- 22. homocerus Nitzsch, in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 306. (Tetrao tetrix.) Nom. nud.
- 24. intermedius Neumann, Arch. Parasit., xv, 1913, p. 627, f. 15-18. (Pucrasia darwini.)
- 23. isogenus Nitzsch, see Goniocotes.
- 24. laevis Piaget, Pédiculines, 1880, p. 673, Pl. 56, f. 2. (Cryptonyx coronatus) = G. coronatus Rudow.
- **25.** laticeps Piaget, *Pédiculines*, 1880, p. 259, Pl. 21, f. 6. (*Tinamus julius.*)
- 25. latifasciatus Piaget, Pédiculines, 1880, p. 269, Pl. 22, f. 4. (Euplocamus (Gennaeus) ignitus)=G. longus Rudow.
- 25 a. lativentris Uchida, Annotat. Zool. Jap., ix, 1916, p. 81, figs. 1 and 2.

- 25b. lativentris, v. major Uchida, Annotat. Zool. Japon., ix, 1916, p. 84, fig. 3. Invalidated by major Piaget.
- 26. latus Piaget, Pédiculines, 1880, p. 672, Pl. 55, f. 9. (Goura coronata, G. victoriae.)
- 26. lipogonus Nitzsch, see Ornicholax.
- 27. longipes Giebel, Ins. Epiz., 1874, p. 190. (Tinamus tao) = G. oniscus Nitzsch juv.
- 28. longipes Piaget, Pédiculines, 1880, p. 253, Pl. 20, f. 7. (Crax galeata) = G. bicolor Rudow.
- 29 longipilosus Giebel, Zeit. f. ges. Nat., lii, 1879, p. 475. (Seleucides alba.) Nom. nud.
- 27. longus Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 481. (Euplocamus (Gennaeus) ignitus) [25].
- 30. longus Le Souëf, Vict. Naturalist, xix, 1902, p. 90, nec Rudow, 1870. (Excalfactoria lineata) = G. elongatus Piaget.
- 28. major Piaget, Pédiculines, 1880, p. 274, Pl. 24, f. 1. (Crossoptilon auritum.)
- 31. major Neumann, Bull. Soc. Toulouse, xxiv, 1890, p. 64, nec Piaget, 1880. (Microglossus alecto.)
- 29. mammillatus Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 483. (Callipepla californica.)
- megacerus Kell. and Paine, Rec. Ind. Mus., x, 1914, p. 227, Pl. xv,
   f. 8. (Lophophorus impeyanus.)
- 31. meleagridis Linné, Syst. Nat., 1758, p. 613. (Meleagris gallopavo) [39, 40].
- 32. menadensis Piaget, Pédiculines, 1880, p. 672, Pl. 56, f. 1. (Macropygia menadensis.)
- 32. mephitidis Packard, see Trichodectes.
- 33. merriamanus Packard, Ann. Rept. U.S. Geol. Surv., 1872, p. 731. (Tetrao richardsoni.)
- **34.** minor Piaget, *Pédiculines*, 1880, p. 248. Sub-species of *G. dispar* Nitzsch. (*Perdix californica.*)
- 33. minor Piaget, Pédiculines, 1880, p. 256, Pl. 21, f. 3, nec 1880, p. 248. (Columba spp.) = piageti Johnston and Harrison.
- **35.** minutus Carriker, *Univ. Nebr. Stud.*, iii, 1903, p. 155, Pl. 4, f. 1, 2. (*Tinamus robustus.*)
- 36. neumannia Kell. and Paine, Rec. Ind. Mus., x, 1914, p. 221, Pl. xv, f. 6, 7. (Argusianus argus.)
- 37. numidae Mjöberg, Arkiv f. Zool., vi, 1910, p. 102. (Numida ptilorhyncha.)
- **38.** numidianus Denny, *Anoplur. Brit.*, 1842, p. 163, Pl. 13, f. 7. (*Numida meleagris.*)

- 34. obscurus Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 389. Nom. nud. (Crypturus coronatus) = G. coronatus Giebel.
- 39. ocrea Piaget, Pédiculines, 1880, p. 252, Pl. 20, f. 6. (Megapodius rubripes.)
- **40.** oniscus Nitzsch, in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 388. (*Tinamus tao*) [2, 27].
- 41. ortygis Denny, Anoplur. Brit., 1842, p. 158, Pl. 23, f. 6. (Ortyx virginianus.)
- 42. pallidus Giebel, Zeit. f. ges. Nat., xlix, 1877, p. 530. (Euplocamus (Gennaeus) erythrophthalmus.)
- 35. paradoxus Burmeister, Handbuch, ii, 1839, p. 432. Nom. nud. (Coturnix communis (coturnix))=G. elongatus Piaget.
- 43. parviceps Piaget, Pédiculines, 1880, p. 277, Pl. 23, f. 2. (Pavo cristatus.)
- 44. parvulus Taschenberg, Nova Acta, xliv, 1882, p. 38, Pl. 1, f. 4. (Tinamus robustus.)
- 45. pavonis Linné, Syst. Nat., 1758, p. 613. (Pavo cristatus) [17, 41].
- 46. pennaticeps Paine and Mann, Psyche, xx, 1913, p. 16, f. 3.

  (Anthus lutescens. Straggler from Tinamou.

  L. H.)
- 47. piageti Johnston and Harrison, Proc. Roy. Soc. Qsld, xxiv, 1912, p. 19. (Columba spp.) Nom. nov. for G. minor Piaget, 1880, p. 256, nec p. 248 [33].
- 48. processus Kellogg and Paine, Rec. Ind. Mus., x, 1914, p. 226, Pl. xv, f. 9. (Arboricola rufigularis.)
- 36. pusillus Nitzsch, see Goniocotes.
- 49. retractus Le Souëf, Vict. Nat., xix, 1902, p. 90. (Synoicus australis.)
- 50. rotundatus Rudow, Beiträge, 1869, p. 22. (Tinamus (Rhynchotus) rufescens) [14].
- 37. rotundus Rudow, Beiträge, p. 28 = G. eximius Rudow. (Penelope nigra.)
- 51. sectus Kellogg and Paine, Rec. Ind. Mus., x, 1914, p. 224, f. 1, 2. (Catreus wallichii.)
- 52. securiger Nitzsch, in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 387. (Perdix petrosa.)
- 53. setosus Piaget, Pédiculines, 1880, p. 257. (Treron abyssinicum.)
- 38. setosus Piaget, Pédiculines, 1880, p. 263, see Ornicholax.
- 54. sexpunctatus Piaget, Pédiculines, Suppl., 1885, p. 51, Pl. 5, f. 9. (Rhynchotus rufescens.)

- 55. spinicornis Nitzsch, in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 389. (Tragopan satyrus, T. hastingi) [4].
- **56.** spinosus Piaget, *Pédiculines*, 1880, p. 261, Pl. 21, f. 7. (*Tinamus julius, T. robustus*) [10].
- 39. stylifer Nitzsch, in Burmeister, Handbuch, ii, 1838, p. 432. (Meleagris gallopavo) = G. meleagridis Linné.
- 40. styliferum Taschenberg, Die Mallophagen, 1882, p. 47, emend. for stylifer Nitzsch = G. meleagridis Linné.
- 57. subdilatatus Piaget, Pédiculines, 1880, p. 257, Pl. 21, f. 4. (Tinamus (Crypturus) variegatus.)
- 58. suborbiculatus Piaget, Tijd. v. Ent., xxxiii, 1888, p. 237, Pl. 9, f. 2. (Goura victoriae.)
- 41. tetragonocephalus Olfers, De vegetativis, etc., 1816, p. 90. (Pavo cristatus) = G. pavonis Linné.
- **59.** tetraonis Linné, *Syst. Nat*, 1758, p. 614. (*Tetrao tetrix*) [12, 21].
- 42. truncatus Giebel, Ins. Epiz., 1874, p. 194 = G. flaviceps Rudow. (Perdix rubra.)

#### Genus 31. Goniocotes Burmeister.

- 1. abdominalis Piaget, Pédiculines, 1880, p. 238, Pl. 20, f. 9.

  (Gallus domesticus (gallus). Straggler from Numida) = G. gigas Tasch.
- 2. abnormis Kellogg, see Paragoniocotes.
- aegyptiacus Kellogg and Paine, Bull. Ent. Res., 1911, p. 148, Pl. 5,
   f. 2. ('Blue pigeon.')
- 2. affinis Taschenberg, Die Mallophagen. 1882, p. 97, Pl. 2, f. 4. (Carpophaga rufigastra, Myristicivora bicolor.)
- 3. agonus Nitzsch, see Kelloggia.
- 3. alatofasciatus Piaget, Pédiculines, Suppl., 1885, p. 46, Pl. 5, f. 5. (Rhyncotus rufescens.)
- 4. alatus Piaget, Pédiculines, Suppl. 1885, p. 45, Pl. 5, f. 4. (Caccabis chukar.)
- 5. alienus Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 389. (Crypturus macrurus.)
- 6. astrocephalus Nitzseh, in Burmeister, Handbuch, ii, 1838, p. 431. (Coturnix communis (coturnix)) (asterocephalus in Ins. Epiz. L. H.) [12].
- 7. bidentatus Scopoli, Ent. Carn., 1763, p. 385. (Columba palumbus) 17].
- 4. bifasciatus Piaget, see Austrogoniodes.

- 8. bisetosus Piaget, Pédiculines, 1880, p. 228, Pl. 19, f. 3. (Geotrygon linesris.)
- 5. burnetti Packard, see Lipeurus.
- 9. candidus Piaget, Pédiculines, Suppl., p. 40, Pl. 4, f. 9. (Ptilopus cinctus.)
- 10. carpophagae Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 478. (Carpophaga spp.)
- 6. chelicornis Nitzsch, see Goniodes.
- chinensis Kellogg and Chapman, Journ. N.Y. Ent. Soc., x, 1902,
   p. 160, Pl. 13, f. 5.

### (Turtur chinensis.)

- 12 chrysocephalus Giebel, *Ins. Epiz.*, 1874, p. 189. (*Phasianus* spp.) [12, 22].
- 13. clypeiceps Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 389. (Crypturus cinereus.)
  - 7. compar Nitzsch, in Burmeister, Handbuch, ii, 1838, p. 431. (Columba spp.) = G. bidentatus Scopoli.
  - 8. coronatus Giebel, see Goniodes.
- 14. coxatus Piaget, Pédiculines, Suppl., p. 43, Pl. 5, f. 1. (Tinamus solitarius.)
- 15. crassipes Piaget, Tijd. v. Ent., xxxi, 1888. p. 154, Pl. 3, f. 7. (Talegallus cuvieri.)
- 16. creber Kellogg, New Mallophaga, ii, 1896, p. 510, Pl. 69, f. 3. (Phasianus nycthemerus.)
- 17. curtus Nitzsch, in Burmeister, *Handbuch*, ii, 1838, p. 432. (Opisthocomus cristatus (hoazin).)
  - 9. dilatatus Rudow, see Goniodes.
- 18. diplogonus Nitzsch, in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 389. (Tragopan satyrus.)
- 19. discogaster Taschenberg, Die Mallophagen, 1882, p. 86, Pl. 2, f. 12. (Megapodius freycineti.)
- 20. eurygaster Piaget, Pédiculines, Suppl., 1885, p. 43, Pl. 5, f. 2. (Oreoperdix crudigularis.)
- 10. fasciatus Piaget, see Paragoniocotes.
- 21. fissus Rudow, Beiträge, 1869, p. 23. (Talegallus lathami.)
- 22. flavus Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 486. (Phaps chalcoptera.)
- 23. galapagensis Kellogg and Kuwana, Proc. Wash. Acad. Sci., iv, 1902, p. 481, Pl. 30, f. 5.

  (Nesopelia galapagensis.)

- 11. gallinae Degeer, Mém. Hist. Ins., vii, 1778, p. 79, Pl. 4, f. 15. (Gallus domesticus (gallus)) = G. hologaster Nitzsch.
- 24. gigas Taschenberg, Zeit. f. ges. Nat., lii, 1879, p. 104, Pl. 1, f. 10. (Gallus domesticus (gallus). Straggler from Numida) [1, 14].
- 12. gracilis Taschenberg, Die Mallophagen, 1882, p. 71. (Coturnix communis (coturnix)) = G. astrocephalus Nitzsch.
- 13. gregarius Nitzsch, in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 388. (Perdix afra) = G. chrysocephalus Nitzsch.
- 25. guttatus Taschenberg, Die Mallophagen, 1882, p. 89, Pl. 2, f. 14. (Penelope cristata, P. pipila.)
- 26. haplogonus Nitzsch, in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 390. (Lophophorus impeyanus.)
- 27. hologaster Nitzsch, in Burmeister, *Handbuch*, ii, 1838, p. 431. (*Gallus* spp.) [11, 18].
- 14. hologaster Denny, Anoplur. Brit., 1842, p. 153, Pl. 12, f. 4, nec Nitzsch, 1839. (Gallus domesticus (gallus))=G. gigas Tasch.
- 28. indicus Kell. & Paine, Rec. Ind. Mus., x, 1914, p. 218, Pl. xiv, f. 4. (Arboricola rufigularis.)
- 29. irregularis Rudow, Beiträge, 1869, p. 24. (Buteo ghisbrechti. Straggler. L. H.)
- 30. isogenos Nitzsch, in Giebel, Ins. Epiz., 1874, p. 194. (Perdix afra.)
- 31. laticeps Piaget, Pédiculines, Suppl., 1885, p. 41, Pl. 4, f. 11. (Epimachus albus.)
- 32. latifasciatus Piaget, Tijd. v. Ent., xxvi, 1883, p. 157, Pl. 9, f. 4. (Agelastus meleagrides.)
- latifasciatus Piaget, Pédiculines, Suppl., 1885, p. 38, Pl. 4, f. 8, nec 1883. (Cinclosoma bicolor.) Straggler from Quail. L. H.
- 16. latus Piaget, see Goniodes.
- 17. longipes Giebel, see Goniodes.
- 33. macrocephalus Taschenberg, Die Mallophagen, 1882, p. 87, Pl. 2,f. 11. (Talegallus lathami.)
- 17a. macrocephalus Uchida, Annotat. Zool. Japon., ix, 1916, p. 86, fig. 4.

  Invalidated by macrocephalus Taschb.=megalocephalus
  Uchida, q.v.
- 18. maculatus Taschenberg, Die Mallophagen, 1882, p. 76, Pl. 3, f. 3.
  (Gallus domesticus (gallus)) = G. hologaster Nitzsch.
- 34. major Piaget, Pédiculines, 1880, p 239, Pl. 21, f. 1. (Megapodius rubripes, Talegallus fuscirostris.)
- 19. major Neumann, Bull. Soc. Toulouse, xxiv, 1890, p. 64, nec Piaget, 1880.
- **34a. megalocephalus** Uchida, nom. nov. for *macrocephalus* Uchida, q.v. Parasitology ix

- 20. menadensis Piaget, see Goniodes.
- 35. microthorax Nitzsch, in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 389. (Perdix cinerea (perdix).)
- **36.** minor Piaget, *Pédiculines*, 1880, p. 241, Pl. 21, f. 2. (*Megapodius*, spp.)
- 37. nigromaculatus Mjöberg, Arkiv f. Zool., vi, 1910, p. 106, f. 62. (Numida mitrata.)
- 38. nirmoides Kell. & Paine, Rec. Ind. Mus., x, 1914, p. 219, Pl. xiv, f. 5. (Lophophorus impeyanus.)
- 21. numidae Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 308. (Numida meleagris.) Nom. nud.
- 39. obscurus Giebel, Ins. Epiz., 1874, p. 188. (Perdix rubra = Caccabis rufa.)
- 22. ocellatus Rudow, Beiträge, 1869, p. 23 = G. chrysocephalus Nitzsch. (Nycthemerus lineatus.)
- 40. pallidiflavus Piaget, Tijd. v. Ent., xxxiii, 1888, p. 235, Pl. 8, f. 11. (Megacephalum maleo.)
- 41. pallidomaculatus Piaget, Pédiculines, 1880, p. 227, Pl. 19, f. 2. (Perdix javanica.)
- pellucidus Piaget, Pédiculines, Suppl., 1885, p. 40.
   (Glyciphila fasciata. Straggler from Ptilopus sp. L. H.)
- 23. phasiani Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 308. (Phasianus colchicus.) Nom. nud.
- **43.** procerus Taschenberg, *Die Mallophagen*, 1882, p. 96, pl. 2, f. 6. (*Henicophaps albifrons.*)
- 44. pusillus Nitzsch, in Giebel, Ins. Epiz., 1874, p. 186. (Perdix petrosa.)
- **45.** quadraticeps Piaget, Pédiculines, Suppl., 1885, p. 42, Pl. 4, f. 12. (Paradisea papuana. Straggler. L. H.)
- 46. rectangulatus Nitzsch, in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 389. (Pavo cristatus) [24].
- 24. rectangulus nom. nud. in Burmeister, Handbuch, ii, 1838, p. 432 = G. rectangulatus Nitzsch.
- 47. robustus Taschenberg, Die Mallophagen, 1882, p. 100. (Henicophaps albifrons.)
- 48. rotundatus Rudow, Beiträge, 1869, p. 22. (? = Goniodes rotundatus. L. H.) (Rhynchotus rufescens.)
- 49. rotundiceps Piaget, Pédiculines, 1880, p. 233.
  - (**Phasianus** spp.)
- 50. sexsetosus Piaget, Pédiculines, Suppl., 1885, p. 48, Pl. 5, f. 7. (Rhynchotus rufescens.)
- 25. spinicornis Giebel, see Goniodes.

- **51. verrucosus** Taschenberg, *Die Mallophagen*, 1882, p. 94, Pl. 3, f. 4. (*Crypturus variegatus.*)
- 26. waterstoni Cummings, see Austrogoniodes.

### Genus 32. Lipeurus Nitzsch.

- (N.B. The majority of species of the genus *Lipeurus*, as originally constituted, appear in this list under *Esthiopterum*.)
- 1. acuminatus Piaget, Pédiculines, Suppl., 1885, p. 70, Pl. 7, f. 6. (Excalfactoria australis.)
- 2. angustissimus Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 382. (Hemipodius pugnax.)
- 3. antennatus Piaget, Pédiculines, Suppl., 1885, p. 75, Pl. 8, f. 3. (Euplocamus swinhoei.)
- 4. appendiculatus Piaget, Pédiculines, 1880, p. 356, Pl. 28, f. 8. (Megapodius rubripes.)
- 5. burmeisteri Taschenberg, Die Mallophagen, 1882, p. 170, Pl. 6, f. 4. (Lophophorus impeyanus.)
- 6. burnetti Packard, Amer. Nat., iv, 1870, p. 94, f. 26. (Gallus domesticus (gallus).)
- 7. californicus Kellogg and Chapman, New Mallophaga, iii, 1899, p. 103. (Oreortyx pictus.)
- 8. caponis Linné, Syst. Nat., 1758, p. 614. (Gallus domesticus (gallus)) [9].
- 9. castaneus Piaget, Pédiculines, Suppl., 1885, p. 73, Pl. 8, f. 2. (Lophophorus impeyanus.)
- 10. cinereus Nitzsch, in Giebel, Ins. Epiz., 1874, p. 221. (Coturnix communis (coturnix).)
- 11. concolor Rudow, Beiträge, 1869, p. 33. (Crax carunculata) [6].
- 12. crassus Rudow, Zeit. f. ges. Nat., xxxvi, 1870, p. 127. (Talegallus lathami.)
- 13. differens Piaget, Pédiculines, Suppl., 1885, p. 76, Pl. 8, f. 4. (Agelastus meleagrides.)
- 14. dissimilis Piaget, Pédiculines, 1880, p. 359, Pl. 29, f. 1. (Colinus virginianus.)
- 15. docophoroides Piaget, Pédiculines, 1880, p. 357, Pl. 28, f. 9. (Callipepla californica.)
- **16.** eurycnemis Taschenberg, *Die Mallophagen*, 1882, p. 171, Pl. 6, f. 5. (*Lophophorus impeyanus*.)
- 17. gallipavonis Geoffroy, Hist. Abr. Ins., 1762, p. 600.

(Meleagris gallopavo.)

- 18. hamatus Piaget, *Pédiculines*, Suppl., 1885, p. 77, Pl. 8, f. 5. (*Ortyx* sp.)
- heterogrammicus Nitzsch, in Giebel, Zeit. f. ges. Nat., xxviii, 1866,
   p. 379. (Perdix cinerea.)
- 20. heterographus Nitzsch, in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 381. (Various Gallus spp.) [2a].
- 21. himalayensis Rudow, Zeit. f. ges. Nat., xxxvi, 1870, p. 123. (Tragopan hastingi.)
- 22. inaequalis Piaget, Pédiculines, 1880, p. 355, Pl. 28, f. 7. (Megapodius rubripes.)
- 23. intermedius Piaget, Pédiculines, 1880, p. 368, Pl. 29, f. 7. (Euplocamus (Gennaeus) ignitus.)
- 24. introductus Kellogg, New Mallophaga, ii, 1896, p. 500, Pl. 68, f. 1, 5. (Phasianus nycthemerus.)
- 25. ischnocephalus Taschenberg, Die Mallophagen, 1882, p. 173, Pl. 6, f. 8. (Talegallus lathami.)
- 26. latifasciatus Piaget, Tijd. v. Ent., xxxiii, 1888, p. 240, Pl. 8, f. 4. (Megapodius freycineti.)
- **27.** longus Piaget, *Pédiculines*, 1880, p. 370, Pl. 29, f. 8. (*Tragopan satyrus.*)
- 28. maculipes Piaget, Pédiculines, 1880, p. 353. (Ortyx virginianus.)
- 29. madagascariensis Mjöberg, Arkiv f. Zool., vi, 1910, p. 92. (Margaroperdix striata.)
  - 1. major Piaget, Pédiculines, 1880, p. 357, nec p. 346. (Tinamus canus.)
  - 2. major Piaget, Pédiculines, 1880, p. 362, nec p. 346. (Pavo spiciferus.)
- 30. mesopelius Nitzsch, in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 379. (Phasianus pictus, P. nycthemerus) [7].
- 31. meyeri Taschenberg, Die Mallophagen, 1882, p. 175, Pl. 6, f. 1. (Talegallus fuscirostris.)
- 32. minhaensis Kell. & Chap., Journ. N.Y. Ent. Soc., x, 1902, p. 159. (Acridotheres tristis. Straggler. L. H.)
- 33. nigrolineatus Piaget, Pédiculines, Suppl., 1885, p. 60, Pl. 6, f. 7. (Hemipodius dussumieri.)
- **34.** numidae Denny, *Anoplur. Brit.*, 1842, p. 115, Pl. 10, f. 5. (*Numida meleagris.*)
- 35. numidianus Mjöberg, Arkiv f. Zool., vi, 1910, p. 87. (Numida mitrata, N. ptilorhyncha.)
- 2a. obscurus Giebel, Ins. Epiz., 1874, p. 220 = L. heterographus Nitzsch. (Perdix ruga.)

- 3. ochraceus Nitzsch, in Giebel, Zeit. f. ges. Nat., xxix, 1867, p. 429. (Tetrao urogallus) = L. tetraonis Grube.
- **36.** orthopleurus Nitzsch, in Giebel, *Ins. Epiz.*, p. 217. (Argusianus giganteus (argus).)
- 37. oxycephalus Taschenberg, Die Mallophagen, 1882, p. 178, Pl. 6, f. 7. (Megapodius freycineti.)
  - 4. patatorius Nitzsch, in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 307. Nom. nud. (Lophophorus impeyanus.)
- 5. polytrapezius Nitzsch, in Burmeister, Handbuch, ii, 1838, p. 434. (Meleagris gallopavo) = L. gallipavonis Geoffroy.
- 38. postemarginatus Carriker, Univ. Nebr. Stud., iii, 1903, p. 147, Pl. 3, f. 4. (Ortalis cinereiceps.)
- **39.** protervus Kellogg, New Mallophaga, iii, 1899, p. 31, Pl. 3, f. 4. (Lagopus lagopus.)
- 6. quadrinus Nitzsch, in Giebel, Ins. Epiz., 1874, p. 222. (Crax carunculata) = L. concolor Rudow.
- 7. robustus Rudow, Zeit. f. ges. Nat., xxxvi, 1870, p. 124. (Nycthemerus linearis) = L. mesopelius Nitzsch.
- **40.** rubrifasciatus Piaget, *Pédiculines*, Suppl., 1885, p. 71, Pl. 7, f. 8. (*Oreoperdix crudigularis.*)
- 41. sinuatus Taschenberg, Die Mallophagen, 1882, p. 180, Pl. 6, f. 6. (Megapodius freycineti.)
  - 8. stygius Nitzsch, in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 307. (Lophophorus impeyanus.) Nom. nud.
- 42. tetraonis Grube, Middend. Sib. Reise, i, p. 485, Pl. 2, f. 1. (Lagopus albus, Tetrao urogallus) [3].
- **43.** tsade Piaget, Tijd. v. Ent., xxxiii, 1888, p. 241, Pl. 9, f. 5. (Megacephalon maleo.)
- 44. unicolor Piaget, Pédiculines, 1880, p. 354, Pl. 28, f. 6. (Perdix javanica.)
- 9. variabilis Nitzsch, in Burmeister, Handbuch, ii, 1838, p. 434. (Various **Gallus** spp.) = L. caponis Linné.

# Genus 33. Austrogoniodes Harrison.

- 1. bifasciatus Piaget, Pédiculines, Suppl., 1885, p. 47, Pl. 5, f. 6. (Spheniscus demersus.)
- 2. brevipes Giebel, Ann. Mag. Nat. Hist., xvii, 1876, p. 389. (Aptenodytes longirostris.)
- 3. strutheus Harrison, Parasitology, vii, 1915, p. 399, Pl. 27, f. 15. (Eudyptes sclateri.)
- 4. waterstoni Cummings, Bull. Ent. Res., 1914, p. 173, f. 8. (Eudyptula minor.)

### Genus 34. Physconella Paine.

1. kelloggi Paine, Psyche, xx, 1913, p. 158, f. 1.

(Chamaepelia rufipennis). Straggler from Tinamou. L. H.)

### Genus 35. Kelloggia Carriker.

- 1. agonus Nitzsch, in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 387. (Crypturus tao.)
- 2. brevipes Carriker, Univ. Nebr. Stud., iii, 1903, p. 154, Pl. 9, f. 2. (Tinamus robustus.)

#### Genus 36. Ornicholax Carriker.

- 1. coniceps Taschenberg, Die Mallophagen, 1882, p. 63, Pl. 1, f. 8. (Crypturus variegatus.)
- 2. lipogonus Nitzsch, in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 388. (Rhynchotus rufescens) [1].
- 3. robustus Carriker, Univ. Nebr. Stud., iii, 1903, p. 151, Pl. 9, f. 1. (Tinamus robustus.)
- 1. setosus Piaget, Pédiculines, 1880, p. 263, Pl. 21, f. 9. (Crypturus variegatus) = O. lipogonus Nitzsch.

# Sub-family f. Philopterinae Harrison.

# Genus 37. Philopterus Nitzsch.

- 1. acanthus Giebel, Ins. Epiz., 1874, p. 101. (Haematopus ostralegus.)
- 2. acuminatus Piaget, Tijd. v. Ent., xxxi, 1888, p. 147, Pl. 3, f. 1. (Turacus purpureus.)
- 3. acutipectus Kellogg, New Mallophaga, i, 1896, p. 84, Pl. 3, f. 4. (Ceratorhina monocerata, Fratercula arctica.)
- 1. acutofrontatus 'Schilling,' Gurlt, Arch. f. Naturgesch., 1857, p. 287.

  Nom. nud.
- 4. \*acutior Nom. nov. for acutus Piaget, 1880, nec Rudow, 1870. (Paradisea aurea) [2].
- 5. acutus Rudow, Zeit. f. ges. Nat., xxxv, 1870. p. 463. (Scythrops novae-hollandise.)
- 2. acutus Piaget, Pédiculines, 1880, p. 68, Pl. 5, f. 4, nec Rudow, 1870. (Paradisea aurea) = P. acutior Harrison.
- 3. adustus Olfers, De vegetativis, etc., 1813, p. 87. (Corvus corone) = P. corvi Linné.

- 4. adustus Nitzsch, in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 316. (Anser cinereus) nec Olfers, 1816.
- 6. aeneas Piaget, Pédiculines, Suppl., 1885, p. 5, Pl. 1, f. 7. (Motacilla alba.)
- 7. affinis Piaget, Pédiculines, 1880, p. 67, Pl. 5, f. 3. (Acridotheres cristatellus.)
- 8. agelaii Osborn, Bull. Div. Ent., 1896, p. 220. (Agelaius phoeniceus.)
- 9. alaskensis Kell. & Kuw., Proc. Acad. Nat. Sc. Phila., 1900, p. 151, Pl. 7, f. 1. (Rhodostethia rosea.)
- 10. alatoelypeatus Piaget, Pédiculines, Suppl., 1885, p. 10, Pl. 1, f. 11. (Dacelo cinereifrons.)
- 11. albemarlensis Kellogg and Kuwana, Proc. Wash. Acad. Sci., iv, 1902, p. 465, Pl. 28, f. 5.

### (Camarhynchus affinis.)

- 5. albidus Piaget, Pédiculines, 1880, p. 48, Pl. 3, f. 6. (Corvus scapulatus) = P. semisignatus Nitzsch.
- 6. albiventris Scopoli, Ent. Carn., 1763, p. 385=P. subflavescens Geoff.
  (Motacilla, Troglodytes.)
- 12. alcedinis Denny, Anoplur. Brit., 1842, p. 111, Pl. vi, f. 1. (Alcedo ispida) [33].
- 13. alienus Kellogg, New Mallophaga, ii, 1896, p. 413, Pl. 65, f. 2. (Colaptes auratus.)
- 14. alpinus Giebel, Ins. Epiz., 1874, p. 105. (Tringa (Erolia) alpina.)
- 15. ambiguus Burmeister, Handbuch, ii, 1838, p. 426. (Scolopax gallinago) [8].
  - 7. ambiguus Nitzsch, in Giebel, Ins. Epiz., 1874, p. 119, Pl. 8, f. 12-13. (Cassicus cristatus) nec Burmeister, 1838, = P. magus Nitzsch.
- 16. americanus Kellogg, New Mallophaga, iii, 1899, p. 11, Pl. 1, f. 4, 7. (Cinclus mexicanus.)
  - 8. amphibolus Nitzsch, in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 314. (Scolopax gallinago) = P. ambiguus Burmeister.
- 9. anceps 'Schilling,' Gurlt, Arch. f. Naturgesch., xxiii, 1857. Nom. nud. (Fringilla carduelis.)
- 17. angulatus Piaget, Pédiculines, 1880, p. 21. (Buteo vulgaris.)
- 10. angulatus Piaget, Pédiculines, 1880, p. 93, Pl. 8, f. 5, nec p. 21. (Host unknown. ? Ibis. L. H.)
- 18. angustoclypeatus Piaget, Pédiculines, 1880, p. 34, Pl. 2, f. 3. (Polytelis barrabandi.)

- 19. annulatus Nitzsch, in Giebel, Ins. Epiz., 1874, p. 159, Pl. 5, f. 9-10. (Oedicnemus crepitans.)
- 11. anseris Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 283. Nom. nud. (Anser cinereus.)
- 20. antennatus Piaget, Pédiculines, 1880, p. 101, Pl. 8, f. 6. (Dromas ardeola.)
- 21. aquilinus Denny, Anoplur. Brit., 1842, p. 81, Pl. 2, f. 7. (Aquila chrysaëtos, etc.)
- 22. aracarae Coinde, Bull. Soc. Nat. Moscou, xxxii, 1859, p. 424. (Macrocercus sp.)
- 23. arcticus Mjöberg, Arkiv f. Zool., vi, 1910, p. 122. (Tringa sp. ? maritima.)
- 24. arcunotatus Neumann, Bull. Soc. Toulouse, xxv, 1891, p. 85. (Eclectus polychlorus.)
- 12. argulus Giebel, see Degeeriella.
- 25. armatus John. & Harr., Trans. N. Z. Inst., xliv, 1912, p. 370, f. 7-10. (Numenius variegatus.)
- 26. assimilis Piaget, Pédiculines, 1880, p. 35, Pl. 2, f. 6. (Cacatua sp. Straggler on Paradiseus viridis.)
- 27. asturinus Mjöberg, Arkiv f. Zool., vi, 1910, p. 112. (Astur palumbarius.)
- 28. athene Mjöberg, Arkiv f. Zool., vi, 1910, p. 115. (Athene noctua.)
- 29. atlanticus Kellogg, Brooklyn Science Bull., ii, 1914, p. 81. (Sterna paradisea.)
- 13. atratus Nitzsch, in Denny, Anoplur. Brit., 1842, p. 63, Pl. 4, f. 8. (Corvus spp.) = P. corvi Linné.
- 30. atricolor Kellogg, New Mallophaga, i, 1896, p. 93, Pl. 3, f. 9. (Synthliborhampus antiquus, Brachyrhampus marmoratus.)
- 14. auratus Lyonet (De Haan), Mém. Mus., xviii, 1829, see Degeeriella.
- 31. auratus Nitzsch, in Burmeister, *Handbuch*, ii, 1838, p. 424. (Scolopax rusticola.)
- 32. auritus Scopoli, Ent. Carn., 1763, p. 383. (Picus spp.) [148].
- 15. aviator Evans, see Trabeculus.
- 33. barbatus Osborn, Ohio Nat., ii, 1902, p. 201, Pl. 14, f. 1. (Scolecophagus carolinus.)
- 16. bassanae Denny, see Pectinopygus.
- 17. biarmici Leach MS., in Denny, List Brit. An., 1852, p. 11. Nom. nud. = P. pari Denny.

- **34.** bicolor Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 459. (Priocella glacialoides.)
- 18. bifrons Nitzsch, Zeit. f. ges. Nat., xxvii, 1866, p. 116. (Merops apiaster) = P. meropis Denny.
- 35. bilineatus Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 463. (Caccabis rufa. Straggler. L. H.)
- **36.** bimaculatus Mjöberg, *Arkiv f. Zool.*, vi, 1910, p. 125. (*Ibis* sp.)
- 19. bipunctatus Giebel, Ins. Epiz., 1874, p. 116 = P. dentatus Scopoli. (Mergus merganser.)
- 37. bipustulatus Piaget, Pédiculines, 1880, p. 103, Pl. 9, f. 1.

  (Ardea (Casmerodius) egretta.) Almost certainly a Rallicola L. H.
- 38. bisetosus Piaget, Pédiculines, Suppl., 1885, p. 17, Pl. 3, f. 6. (Mergus serrator.)
- 39. bisignatus Nitzsch, in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 362. (Plegadis falcinellus, Guara alba) [93].
- **40.** bituberculatus Giebel, *Ins. Epiz.*, 1874, p. 90. (*Edolius bilobus.*)
- 20. brachyoti Leach MS., in Denny, List Brit. An., 1852, p. 13. (Strix brachyotus.) Nom. nud.=P. cursor Nitzsch.
- 41. breviantennatus Piaget, Pédiculines, 1880, p. 108, Pl. 9, f. 9. (Sula serrator.)
- 21. breviappendiculatus Piaget, Pédiculines, 1880, p. 112 = P. gonothorax Gb. (Larus fuscus.)
- 42. brevicollis Nitzsch, in Burmeister, Handbuch, ii, 1838, p. 424. (Vultur cinereus) [22, 153, 159].
- **43.** brevicornis Giebel, *Ins. Epiz.*, 1874, p. 112. (*Sterna* spp.)
- 44. breviformis Kell. & Kuw., Proc. Wash. Acad. Sci., iv, 1902, p. 463, Pl. 28, f. 3. (Progne modesta.)
- 22. brevifrons Burmeister, Handbuch, ii, 1838, p. 424 = P. brevicollis N. (Cathartes papa.)
- **45.** breviloratus Nitzsch, in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 361. (Ciconia argala.)
- 23. brevimaculatus Giebel, Ins. Epiz., 1874, p. 114 = P. dentatuc Scopoli.

  (Anser cinereus.)
- 24. brevimaculatus Piaget, Pédiculines, 1880, p. 119, Pl. 10, f. 7. (Bernicla brenta) nec Giebel, 1874 = P. dentatus Scopoli.
- 46. bruneri Carriker, Univ. Nebr. Stud., iii, 1903, p. 128, Pl. 1, f. 2. (Menacus condaci.)

- 25. brunneiceps Giebel, Ins. Epiz., 1874, p. 114 = P. dentatus Scopoli. (Anser cygnoides.)
- 26. brunneopygus Mjöberg, Arkiv f. Zool., vi, 1910, p. 130 = P. dentatus Scopoli. (Anser leucopsis.)
- 47. bubonis Osborn, Bull. Div. Ent., 1896, p. 219. (Bubo virginianus.)
- 48. buphthalmus Piaget, Pédiculines, Suppl., 1885, p. 2, Pl. 1, f. 3. (Parrot.)
- **49.** buteonis Packard, Amer. Nat., iv, 1870, p. 93, Pl. 1, f. 3. (Buteo lineatus.)
- **50.** californiensis Kellogg, New Mallophaga, ii, 1896, p. 483, Pl. 66, f. 6. (Melanerpes spp.)
- 51. calurus Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 452. (Buteo calurus.)
- 52. calvus Kellogg, New Mallophaga, i, 1896, p. 79, Pl. 3, f. 1. (Uria troile (californica).)
- 27. cancellatus Nitzsch, in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 297. (Corvus cornix.) Nom. nud.
- **53.** cancellosus Carriker, *Univ. Nebr. Stud*, iii, 1903, p. 132, Pl. 1, f. 4. (*Rhamphastos tocard.*)
- 54. candidus Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 457. (Buteo ghisbrechtii.)
- 28. canuti Denny, Anoplur. Brit., 1842, p. 84, Pl. 3, f. 5 (Tringa canutus) = P. fusiformis Denny.
- 29. capensis Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 360. (Sturnus capensis.) Nom. nud.
- 55. capistratus Neumann, Arch. Parasit., xv, 1912, p. 375, f. 20. (Halcyon semicaeruleus.)
- 30. cardinalis Piaget, Pédiculines, 1880, p. 58, Pl. 4, f. 5. (Carduelis cucullata) = P. subflavescens Geoffroy.
- 31. caspicus Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 362. (Sterna caspia.) Nom. nud.
- 56. ceblebrachys Nitzsch, in Denny, Anoplur. Brit., 1842, p. 92, Pl. 1, f. 3. (Nyctea nivea.)
- 57. celidoxus Nitzsch, in Burmeister, *Handbuch*, ii, 1838, p. 426. (*Alca torda*, etc.)
- cephalosus Carriker, Journ. N. Y. Ent. Soc., x, 1902, p. 217, Pl. 20,
   f. 1. (Colaptes cafer.)
- 32. cephalotes Nitzsch, see Paroncophorus.
- 33. cephaloxys Nitzsch, in Giebel, Ins. Epiz., 1874, p. 143, Pl. 7, f. 9. (Alcedo ispida) = P. alcedinis Denny.

- **59.** cephalus Denny, *Anoplur. Brit.*, 1842, p. 81, Pl. 2, f. 8. (*Lestris* spp.) [73].
- 60. cerylinus Mjöberg,  $Arkiv\ f.\ Zool.$ , vi, 1910, p. 119, f. 67, 68. (Ceryle rudis.)  $?=P.\ duplicatus\ Piaget.\ L.\ H.$
- 34. charadriipluvialis 'Schilling,' Gurlt, Arch. f. Naturgesch., xliv, p. 195. (Charadrius pluvialis.) Nom. nud.
- 61. chelorhynchus Giebel, Ins. Epiz., 1874, p. 72. (Circus aeruginosus. Straggler from Parrot.)
- 35. chloridis Schrank, Beyträge, 1776, p. 118, f. 10 = P. subflavescens Geoffroy. (Chloris chloris.)
- 62. chrysophthalmi Denny, Anoplur. Brit., 1844, p. 99, Pl. 2, f. 3. (Clangula chrysophthalmus.)
- 63. cicatricosus Percheron, in Guérin and Percheron, Gén. Ins., 1835, Liv. 50. (Eagle, Piedmont.)
- 64. cincli Denny, Anoplur. Brit., 1842, p. 85, Pl. 5, f. 8. (Cinclus aquaticus) [88].
- 36. cinnamomeus Nitzsch, in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 303. (Coracias garrula.) Nom. nud.
- 37. citrinellae Schrank, Beyträge, 1776, p. 116, f. 7 = P. subflavescens Geoffroy. (Emberiza citrinella.)
- **65.** clausus Giebel, *Ins. Epiz.*, 1874, p. 107. (*Ibis macei.*)
- **66.** claviformis Piaget, *Pédiculines*, Suppl., 1885, p. 2, Pl. 1, f. 2. (*Pitta* sp.)
- 67. clypeatus Mjöberg, Arkiv f. Zool., vi, 1910, p. 113. (Strix tengmalmi.)
- **68.** coccygi Osborn; *Bull. Div. Ent.*, 1896, p. 222, f. 143. (*Coccyzus americanus.*)
- 38. coelebitis Leach MS., in Denny, List Brit. An., 1852, p. 14. (Fringilla coelebs.) Nom. nud. = P. subflavescens Geoffroy.
- 69. coloratus Rudow, Beitrag, 1869, p. 14.
  - (Macronectes giganteus.)
- **70.** colymbinus Denny, *Anoplur. Brit.*, 1842, p. 80, Pl. 8, f. 8 (*Colymbus* spp.)
- 39. communis Nitzsch, in Burmeister, Handbuch, ii, 1838, p. 425. (Many Passeres) = P. subflavescens Geoffroy.
- 40. compar Piaget, Pédiculines, 1880, p. 61, Pl. 7, f. 1.
  (Loxia spp.) = P. subflavescens Geoffrov.
- 71. completus Nitzsch, in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 361. (Anastomus coromandelicus.)
- 41. congener Giebel, Ins. Epiz., 1874, p. 111 = P. gonothorax Giebel. (Larus spp.)

- 72. conicus Denny, Anoplur. Brit., 1842, p. 90, Pl. 5, f. 2. (Charadrius pluvialis) [65].
- 73. continuus Piaget, Pédiculines, 1880, p. 88, Pl. 6, f. 9. (Porphyrio smaragdinus.)
- 42. coracis Leach MS., in Denny, List Brit. An., 1852, p. 7.

  (Corvus corax.) Nom. nud. = P. semisignatus

  N.
- 43. cordiceps Giebel, Ins. Epiz., 1874, p. 103 = P. glareolae Giebel. (Totanus glareola.)
- 44. cordiceps Piaget, Pédiculines, 1880, p. 80, Pl. 6, f. 2, nec Giebel, 1874. (Totanus spp.) = P. temporalis Giebel.
- 45. cornicis Fabricius, Syst. Ent., 1775, p. 807 = P. ocellatus Scopoli. (Corvus cornix.)
- 74. cornutus Piaget, Pédiculines, 1880, p. 21. (Falco bidentatus, Pernis apivorus.)
- 75. coromandus Rudow, Beitrag, 1869, p. 16. (Coccystes coromandus.)
- 46. coronatus Giebel, see Giebelia.
- **76.** corvi Linné, Syst. Nat., 1758, p. 612.
  - (Corvus corone.) Note: P. corvi Packard, 1870, as a Lipeurus, and Osborn, 1896, from Corvus americanus requires renaming, if distinct. L. H. [3, 13.]
- 47. crassiceps 'Burmeister,' Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 287. (Nucifraga caryocatactes) = P. crassipes N.
- 77. crassipes Nitzsch, in Burmeister, Handbuch, ii, 1838, p. 425. (Nucifraga caryocatactes) [47].
- 78. crenulatus Giebel, Ins. Epiz., 1874, p. 71. (Strix nisoria = Syrnia ulula.)
- 48. cruciatus Nitzsch, 1866, see Degeeriella.
- 79. cursitans Nitzsch, in Giebel, Zeit. f. ges. Nat., xvii, 1861, p. 529. (Strix passerina = Athene noctua.)
- 80. cursor Nitzsch, in Burmeister, Handbuch, ii, 1838, p. 426. (Strix brachyotus. Many owls) [20, 142].
- 49. curvirostrae Schrank, Beyträge, 1776, p. 117, f. 8 = P. subflavescens Geoffroy. (Loxia curvirostra.)
- 81. cygni Denny, Anoplur. Brit., 1842, p. 95, Pl. 1, f. 1. (Cygnus spp.)
- 82. delphax Nitzsch, in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 360. (Dacelo gigas.)
- 83. dennyi Ponton, Month. Micr. Journ., vi, 1871, p. 8, Pl. 91, f. 3. (Pionites mexicanus.)

- 84. dentatus Scopoli, Ent. Carn., 1763, p. 383.

  (Many ducks) [19, 23, 24, 25, 26, 83, 98, 105].
- 50. dentatus Giebel, see Docophoroides.
- 85 depressus Piaget, Tijd. v. Ent., xiv, 1871, p. 115, Pl. 6, f. 1. (Malaconotus icterus.)
- 86. \*dilatatior nom. nov. for dilatatus Piaget, 1880, nec Rudow, 1869. (Bernicla brenta) [52].
- 51. dilatatus Rudow, Beiträge, 1869, p. 14 = P. platyrhynchus Nitzsch. (Buteo lagopus.)
- 52. dilatatus Piaget, Pédiculines, 1880, p. 102, Pl. 9, f. 3, nec Rudow, 1869. (Bernicla brenta) = P. dilatatior Harrison.
- 53. diomedeae Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 289. Nom. nud. (Diomedea exulans.)
- 87. distinctus Kellogg, New Mallophaga, ii, 1896, p. 477, Pl. 65, f. 5. (Corvus corax.)
- **88. domesticus** Kellogg, *New Mallophaga*, ii, 1896, p. 475, Pl. 65, f. 4. (*Progne* spp.)
- 54. dubius Piaget, Pédiculines, 1880, p. 120, Pl. 10, f. 8. (Larus mangola) = P. gracilis Piaget.
- 89. duplicatus Piaget, *Tijd. v. Ent.*, xxxiii, 1888, p. 223, Pl. 8, f. 1. (*Ceryle rudis.*)
- 90. elongatus Piaget, Pédiculines, Suppl., 1885, p. 15, Pl. 2, f. 4. (Rhyncops flavirostris.)
- 91. emarginatus Piaget, Tijd. v. Ent., xiv, 1871, p. 135, Pl. 7, f. 14. (Ibis peregrina.)
- 55. emberizae Degeer, Mém. Hist. Ins., vii, 1778, p. 74, Pl. 4, f. 9-10. (Emberiza sp.) = P. subflavescens Geoffroy.
- **92. eos** Rudow, *Beitrag*, 1869, p. 15. (*Cacatua eos.*)
- 93. episcopi Kell., Schwed. Zool. Exp. Kilimandjaro, 1910, p. 44, Pl. 7, f. 2. (Dissoura episcopus.)
- 56. eurygaster Giebel, Ins. Epiz., 1874, p. 69 = P. platyrhynchus Nitzsch. (Buteo lagopus.)
- 57. euryrhynchus Giebel, Ins. Epiz., 1874, p. 112 = P. pustulosus N. (Lestris pomarina=Stercorarius pomatorhina.)
- 94. evagans Kellogg, New Mallophaga, ii, 1896, p. 480, Pl. 66, f. 2. (Dryobates pubescens.)
- 95. excisus Nitzsch, in Burmeister, Handbuch, ii, 1838, p. 425. (Hirundo urbica, etc.) [82].
- 96. extraneus Piaget, Pédiculines, Suppl., 1885, p. 3, Pl. 1, f. 4. (Corvus macrorhynchus.)

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- 58. exulantis Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 289. Nom. nud. (Diomedea exulans.)
- 97. fallax Nitzsch, in Giebel, Ins. Epiz., 1874, p. 141. (Kitta thalassina.)
- 59. fasciatus [Scopoli] Berlese, see Menopon.
- 98. femoralis Giebel, Ins. Epiz., 1874, p. 71. (Falco leucomelas.)
- 99. femoratus Piaget, Pédiculines, 1880, p. 68. (Dacelo princeps.)
- 100. ferrugineus Giebel, Ins. Epiz., 1874, p. 114. (Spatula clypeata.)
- 60. fissiformis Osborn, Bull. Div. Ent., 1896, p. 217 = P. fusiformis Denny. (Tringa (Erolia) alpina.)
- 101. fissisignatus Kellogg and Paine, Ent. News, xxii, 1911, p. 19, f. 1. ('Desert curlew,' Bolivia.)
- 61. flammineae Leach MS., in Denny, List Brit. An., 1852, p. 10.

  Nom. nud. (Strix flammea) = P. rostratus Nitzsch.
- 102. flavopunctatus Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 458. (Tribonyx ventralis.)
- 103. forficula Piaget, *Tijd. v. Ent.*, xiv, 1871, p. 117, Pl. 6, f. 3. (*Platycercus* spp.)
- 104. forficuloides Piaget, Pédiculines, 1880, p. 72, Pl. 5, f. 6. (Alcedo sp. Java. A parrot parasite.)
- 62. fornicatus Olfers, De vegetativis etc., 1816, p. 89. Not recognisable. (Gulls and terns.)
- 105. foudrasi Coinde, Bull. Nat. Mosc., ii, 1859, p. 423. (Ibis sacra.)
- 106. frater Giebel, Ins. Epiz., 1874, p. 103.
  (Totanus (Tringa) hypoleucus.)
- 63. fringillae Denny, Anoplur. Brit., 1842, p. 79, Pl. 3, f. 2.

  (Fringilla montifringilla) = P. subflavescens

  Geoff.
- 64. fulicae Schrank, Fauna Boica, 1803, p. 191, nec Linné, 1758. (Fulica atra) = P. pertusus Nitzsch.
- 65. fuliginosus Kellogg, New Mallophaga, i, 1896, p. 80, Pl. 3, f. 2. (Charadrius spp.) = P. conicus Denny.
- 66. fuligulae Leach MS., in Denny, List Brit. An., 1852, p. 13. Nom. nud. (Fuligula sp.)
- 67. fulvus Nitzsch, in Burmeister, Handbuch, ii, 1838, p. 425. (Garrulus glandarius) = P. garruli Boisd. & Lac.
- 107. furca Giebel, Ins. Epiz., 1874, p. 118. (Grus leucogeranus.)

- **108.** furcatus Giebel, *Ins. Epiz.*, 1874, p. 106. (*Ibis rubra.*)
- 109. fuscatus Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 359. (Cyanocorax cristatellus.)
- 68. fuscicollis Nitzsch, in Burmeister, Handbuch, ii, 1838, p. 425. (Lanius excubitor) = P. lanii Fabricius.
- 69. fuscoclypeatus Johnston and Harrison, see Giebelia.
- 110. fuscoventralis Osborn, Bull. Div. Ent., 1896, p. 221. (Contopus virens.)
- 111. fusiformis Denny, Anoplur. Brit., 1842, p. 84, Pl. 1, f. 2. (Tringa (Erolia) spp.) [28, 60].
- 112. gaini Neumann, Deux. Exp. Ant. Franc., 1913, p. 189, f. 1-3. (Macronectes gigantea.)
- 113. galapagensis Kellogg and Kuwana, Proc. Wash. Acad. Sci., iv, 1902, p. 464, Pl. 28, f. 4.
  - (Geospiza spp., Camarhynchus spp.)
- 70. galli Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 292. Nom. nud. (Gallus bankiva.)
- 114. garrulae Piaget, Pédiculines, 1880, p. 59, Pl. 4, f. 7. (Bombycilla garrula.)
- 115. garruli Boisduval & Lacordaire, Faun. Ent. Env. Paris, 1835, p. 120. (Garrulus glandarius) [67, 72].
- 71. gigas Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 289. Nom. nud. (Diomedea exulans.)
- 116. gilvus Nitzsch, in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 305 (Psittacus erithacus.)
- 72. glandarii Leach MS., in Denny, List Brit. An., 1852, p. 8. Nom. nud. (Garrulus glandarius)=P. garruli Boisd. & Lac.
- 73. glareolae Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 361 = D. cephalus Denny. (Totanus glareola) [43, 109].
- 74. globifer Olfers, De Vegetativis, etc., 1816, p. 19. (Emberiza citrinella, etc.)=P. subflavescens Geoff.
- 75. gonorhynchus Giebel, Zeit. f. ges. Nat., xvii, 1861, p. 526. (Astur nisus) = P. nisi Denny.
- 117. gonothorax Giebel, Zeit. f. ges. Nat., xxxvii, 1871, p. 450. (Larus spp.) [21, 41, 84, 86, 95].
- 118. gracilis Piaget, Tijd. v. Ent., xiv, 1871, p. 120, Pl. vi, f. 5. (Xulla mangola) [54].
- 119. graculae Piaget, Pédiculines, 1880, p. 67, Pl. v, f. 2. (Gracula religiosa.)
- 76. grandiceps Giebel, Ins. Epiz., 1874, p. 85 = P. ptilonorhynchi Ponton. (Ptilonorhynchus holosericeus.)

- 120. graviceps Kellogg, New Mallophaga, i, 1896, p. 82, Pl. 3, f. 3. (Fulica americana, Urinator pacificus.)
- **121. grylle** O. Fabricius, *Faun. Groen.*, 1780 p. 218. (*Uria grylle*) [96].
- **122.** guttatus Nitzsch, in Denny, *Anoplur. Brit.*, 1842, p 67, Pl. 3, f. 8. (*Corvus monedula*) [138].
  - 77. haematopus Scopoli, Ent. Carn., 1763, p. 381, nec Linné, 1758. (Nyctea nivea.)
  - 78. haematopi Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 361, nec Scopoli, 1763. (Haematopus ostralegus.)
- 123. halieti Osborn, Bull. Div. Ent., 1896, p. 218. (Haliaetus leucocephalus.)
- 124. hamatofasciatus Piaget, Tijd. v. Ent., xxxiii, 1888, p. 225, Pl. 8, f. 3. (Penelopides manilla.)
  - 79. hamatus Packard, Amer. Nat., iv, 1870, p. 94, Pl. 1, f. 7. (Emberiza nivalis) = P. subflavescens Geoffroy.
- 125. hawaiiensis Kellogg and Chapman, Journ. N. Y. Ent. Soc., x, 1902,
  p. 157. (Charadrius dominicus fulvus.) Sub-species
  of P. conicus Denny [160].
  - 80. heterocerus Nitzsch, see Strigiphilus.
- 126. heteropygus Nitzsch, in Giebel, Ins. Epiz., 1874, p. 99. (Tantalus loculator.)
- 127. hexagonus Giebel, Ins. Epiz., 1874, p. 116. (Phaethon phoenicurus) [122].
- **128.** hians Giebel, *Ins. Epiz.*, 1874, p. 107. (*Ibis rubra.*)
  - 81. himantopi Leach MS., in Denny, List Brit. An., 1852, p. 10. Nom. nud. (Himantopus candidus.)
- 82. hirundinis Piaget, Tijd. v. Ent., xiv, 1871, p. 134, Pl. 7, f. 13. (Hirundo spp.) = P. excisus Nitzsch.
- 129. horridus Giebel, Zeit. f. ges. Nat., xlvii, 1876, p. 249. (Ciconia australis.)
- 130. hospes Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 457. (Penelope nigra.)
- 131. humeralis Denny, Anoplur. Brit., 1842, p. 88, Pl. 5, f. 7. (Numenius arquata.)
  - 83. icterodes Nitzsch, in Burmeister, Handbuch, ii, 1838, p. 424. (Ducks and Geese) = P. dentatus Scopoli.
- 132. incisus Kellogg, New Mallophaga, ii, 1896, p. 474, Pl. 65, f. 3. (Sialia sialis.)
- 133. incompletus Nitzsch, in Denny, Anoplur. Brit., 1842, p. 105, Pl. 6, f. 5. (Ciconia alba.)

- 134. indicus Piaget, Pédiculines, 1880, p. 98, Pl. 7, f. 6. (Tantalus lacteus.)
- 135. insolitus Kellogg, New Mallophaga, i, 1896, p. 94, Pl. 4, f. 5. (Ptychorhamphus aleuticus.)
- 136. insulicola Kell. & Kuw., Proc. Wash. Acad. Sci., iv, 1902, p. 466, Pl. 28, f. 6. (Passeres, Galapagos.)
- 137. integer Nitzsch, in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 360. (Grus communis (grus).)
- 138. intermedius Piaget, Pédiculines, 1880, p. 20, Pl. 1, f. 2. (Haliaetus vocifer.)
- 139. javanicus Rudow, Beitrag, 1869, p. 12. (Buceros ruficollis) [114].
- **140.** jungens Kellogg, New Mallophaga, ii, 1896, p. 481, Pl. 66, f. 4. (Colaptes auratus.)
- 141. kansensis Kellogg, New Mallophaga, i, 1896, p. 91, Pl. 3, f. 8. (Colymbus nigricollis.)
- 142. labidion Neumann, Bull. Soc. Toulouse, xxv, 1891, p. 84, f. 1. (Eclectus polychlorus.)
- 143. lanii Fabricius, Ent. Syst., Suppl., 1798, p. 570. (Lanius collurio) [68, 154].
  - 84. lari O. Fabricius, Faun. Groen., 1780, p. 219, nec Degeer, 1778. (Larus spp.) = P. gonothorax Giebel.
  - 85. laricola Nitzsch, in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 363. (Sterna spp.) = P. melanocephalus Nitzsch.
  - 86. larinus Picaglia, Atti Soc. Ital. Sci., xxviii, 1885, p. 1. (Larus sp., Suez.) = P. gonothorax Giebel.
  - 87. laticaudatus Rudow, Beitrag, 1869, p. 12 = P. melanocephalus N. (Sterna cantiaca.)
  - 88. laticeps Giebel, Ins. Epiz., 1874, p. 88 = P. cincli Denny. (Cinclus aquaticus.)
- 144. laticlypeatus Piaget, Tijd. v. Ent., xiv, 1871, p. 116, Pl. 6, f. 2. (Cacomantis flabelliformis.)
- 145. latifrons Nitzsch, in Denny, Anoplur. Brit., 1842, p. 97, Pl. 1, f. 4. (Cuculus canorus.)
  - 89. leontodon Nitzsch, in Burmeister, Handbuch, ii, 1838, p. 425. (Sturnus vulgaris) = P. sturni Schrank.
- 146. leptomelas Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 358. (Corvultur albicollis.)
- 90. leucogaster Giebel, Ins. Epiz., 1874, p. 300 = P. platyrhynchus N. (Buteo jaktal.)
- 147. limbatus Piaget, Pédiculines, Suppl., 1885, p. 4, Pl. 1, f. 5. (Megalaema corvina.)

- 148. limosae Denny, Anoplur. Brit., 1842, p. 86, Pl. 4, f. 2. (Limosa spp.)
- 149. linariae Piaget, Pédiculines, Suppl., p. 5, Pl. 1, f. 6. (Fringilla linaria.)
- 150. lineatus Giebel, Ins. Epiz., 1874, p. 91. (Certhia longirostris.)
  - 91. lobaticeps Giebel, Ins. Epiz., 1874, p. 109 = P. melanocephalus N. (Sterna spp.)
  - 92. lobatus Giebel, Ins. Epiz., 1874, p. 68 = P. naevius Giebel. (Aquila naevia.)
- 151. longiceps Piaget, Pédiculines, 1880, p. 663, Pl. 54, f. 6. (Brachypteracias leptosomus.)
- 93. longiclypeatus Piaget, Pédiculines, Suppl., 1885, p. 12, Pl. 2, f. 2.

  (Psittace macao. Straggler from Ibis) = P.

  bisignatus Nitzsch.
- 152. longipes Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 452. (Ardea novaehollandiae.)
- 153. longisetaceus Giebel, Ins. Epiz., 1874, p. 118. (Aquila fulva.)
- **154.** macgregori Kell. & Chap., *Journ. N. Y. Ent. Soc.*, x, 1902, p. 156, Pl. 13, f. 1. (*Chlorodrepanis virens.*)
- 155. macrocephalus Nitzsch, in Giebel, Ins. Epiz., 1874, p. 73. (Haliastur indus, Haliaetus albicilla.)
- 156. macrodocus Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 303. (Cinclosoma pallasi.)
- 157. macropus Giebel, Ins. Epiz., 1874, p. 301. (Caprimulgus europaeus.)
- 158. macrotrichus Kolenati, Sitz. Akad. Wiss. Wien, xxix, 1859, p. 248, f. 5. (Chrysophlegma flavinucha.)
- 94. magus Nitzsch, see Degeeriella [7].
- 159. maculatus Rudow, Beitrag, 1869, p. 12.
  (Cassicus yuaracares = Gymnostinops yuracarium.)
- 160. maculipes Piaget, *Pédiculines*, 1880, p. 661, Pl. 54, f. 3. (*Picus* sp.)
  - 95. magnus Piaget, Pédiculines, 1880, p. 112 = P. gonothorax Giebel. (Larus atricilla.)
- 161. major Waterston, Ent. Month. Mag., 1912, p. 62. Var. of nirmoides. (Scolopax gallinago) [108].
- 162. mandarinus Giglioli, Quart. Journ. Micr. Sci., iv, 1864, p. 22, Pl. 1, f. 9. (Turdus mandarinus.)
- 96. megacephalus Denny, Anoplur. Brit., 1842, p. 86, Pl. 5, f. 5. (Uria grylle) = grylle O. Fabricius.

- 163. melanocephalus Nitzsch, in Burmeister, Handbuch, ii, 1838, p. 426. (Sterna spp.) [85, 87, 91].
  - 97. melittoscopus Nitzsch, in Giebel, Zeit. f. ges. Nat., xvii, 1861, p. 526.
    Nom. nud. (Pernis apivorus.)
- 98. mergi Guérin, Encyc. Meth., ? 1818, Pl. 254, f. 2. (Mergus sp.) = P. dentatus Scopoli.
- 164. merguli Denny, Anoplur. Brit., 1842, p. 72, Pl. 3, f. 7. (Mergulus alle.)
- 165. meropis Denny, Anoplur. Brit., 1842, p. 101, Pl. 4, f. 4. (Merops apiaster) [18].
- 166. merulae Denny, Anoplur. Brit., 1842, p. 106, Pl. 3, f. 1. (Turdus merula.)
- 99. meyeri Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 361. Nom. nud. (Limosa meyeri.)
- 167. microcerus Rudow, Beiträge, 1869, p. 13. (Numenius linearis.)
- 168. milvi Mjöberg, Arkiv f. Zool., vi, 1910, p. 109, Pl. 3, f. 1. (Milvus aegyptius.)
- 169. minor Kell. and Kuw., Wash. Acad. Sci., iv, 1902, p. 460. (Puffinus subalaris.)
- 100. minutotrabeculatus Osborn, see Rallicola.
- 170. mirinotatus Kell. & Chap., New Mallophaga, iii, 1899, p. 65, Pl. 5, f. 6. (Junco hyemalis.)
- 171. mirus Kell. & Chap., New Mallophaga, iii, 1899, p. 67, Pl. 5, f. 7. (Thryothorus bewickii.)
- 172. modularis Denny, Anoplur. Brit., 1842, p. 107, Pl. 3, f. 3. (Accentor modularis.)
- 101. mollis Nitzsch, in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 312.
  Nom. nud. (Totanus calidris.)
- 173. monachus Kellogg and Paine, Ent. News, xxii, 1911, p. 75, f. 1. (Rallus virginianus.)
- 102. monedulae Leach MS., in Denny, List Brit. An., 1852, p. 7. Nom. nud. (Corvus monedula.)
- 174. montereyi Kellogg, New Mallophaga, i, 1896, p. 87, Pl. 3, f. 6. (Synthliborhamphus antiquus, etc.)
- 103. motacillae Fabricius, Gen. Ins., 1776, p. 310=subflavescens Geoffroy.
  (Motacilla alba.)
- 175. mystacinus Nitzsch, Zeit. f. ges. Nat., xxvii, 1866, p. 116. (Dacelo coromandeliana.)
- 104. naeviae Picaglia, Atti Soc. Ital. Sci. Nat., xxviii, 1885, p. 2. (Aquila naevia) = naevius Giebel.

- 176. naevius Giebel, Zeit. f. ges. Nat., xvii, 1861, p. 523. (Aquila naevia) [92, 104, 125].
- 105. natatorum Rudow, Beitrag, 1869, p. 15 = dentatus Scopoli. (Bernicla brenta.)
- 177. naumanni Giebel, Ins. Epiz., 1874, p. 100. (Vanellus squatarola.)
- 106. nectariniae Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 308. Nom. nud. (Nectarinia sp.)
- 107. nirmoides Nitzsch, in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 299.
  Nom. nud. (Sylvia rubetra.)
- .108. nirmoides Piaget, Pédiculines, 1880, p. 104, nec Nitzsch, 1861. (Numenius arquata) = major Waterston.
- 178. nirmoideus Nitzsch, in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 291. (Sylvia rubetra.)
- 179. nisi Denny, Anoplur. Brit., 1842, p. 109, Pl. 3, f. 11. (Accipiter nisus) [75].
- 109. nitzschi Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 361. (Totanus glareola) = glareolae Giebel.
- 180. novaehollandiae Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 360. (Antigone australasiana.)
- **181.** nudipes Piaget, *Pédiculines*, 1880, p. 26, Pl. 1, f. 6. (*Strix brachyotus.*)
- 182. numeniicola John. & Harr., Trans. N. Z. Inst., 1912, p. 372, f. 11–12. (Numenius variegatus.)
- 183. obcordatus Piaget, Tijd. v. Ent., xiv, 1871, p 121, Pl. 6, f. 6. (Scythrops novaehollandiae.)
- 184. obscurus Giebel, Ins. Epiz., 1874, p. 72. (Rostrhamus hamatus.)
- 185. obtusus Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 366. (Anas fuligula.)
- 186. occidentalis Kellogg, New Mallophaga, i, 1896, p. 89, Pl. 3, f. 7. (Fulmarus spp.)
- 110. occidentalis Kellogg, New Mallophaga, iii, 1899, p. 11, Pl. 1, f. 4, 7. (Coccyzus americanus occidentalis.)
- 187. ocellatus Scopoli, Ent. Carn., 1763, p. 382. (Corvus cornix, C. corone) [45].
- 111. ochroleucus Nitzsch, in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 303.
  Nom. nud. (Sturnus vulgaris.)
- 112. oedicnemi Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 308. Nom. nud. (Oedicnemus crepitans.)
- 188. orbicularis Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 460. (Aquila fulvus.)

- 189. ornatus Nitzsch, Zeit. f. ges. Nat., xxvii, 1866, p. 116. (Oriolus galbula.)
- 113. ostralegi Denny, Anoplur. Brit., 1842, p. 74, Pl. 5, f. 4.

  (Haematopus ostralegus. Type in British

  Museum = P. sturni. L. H.)
- 190. ovatus Giebel, Ins. Epiz., 1874, p. 98. (Botaurus stellaris.)
- 114. pachycnemis Giebel, Zeit. f. ges. Nat., xlvii, 1876, p. 248. (Buceros spp.) = P. javanicus Rudow.
- 191. pachypus Giebel, Ins. Epiz., 1874, p. 71. (Falco pondicerianus.)
- 115. pallescens Denny, Anoplur. Brit., 1842, p. 82, Pl. 11, f. 5. (Parus spp.) = P. subflavescens Geoffroy.
- 192. pallidus Giebel, Ins. Epiz., 1874, p. 78. (Strix tengmalmi.)
- 193. panamensis Kellogg, New Mallophaga, iii, 1899, p. 9, Pl. 1, f. 1. (Phoenicothraupis fuscicauda.)
- **194.** papuanus Giebel, Zeit. f. ges. Nat., lii, 1879, p. 475. (Paradisea papuana) [145].
- 116. paraboliceps Piaget, see Degeeriella.
- 117. pari Denny, Anoplur. Brit., 1842, p. 87, Pl. 6, f. 6. (Parus spp.) = P. subflavescens Geoffroy.
- 195. parvus Piaget, Pédiculines, 1880, p. 112. (Larus dominicanus.)
- 118. passerinus Denny, Anoplur. Brit., 1842, p. 104, Pl. 5, f. 12. (Motacilla spp.) = P. subflavescens Geoffroy.
- 119. passeris De Fourcroy, Ent. Paris, 1785, p. 518. (Passer domesticus)=P.subflavescens Geoffroy.
- 120. pastoris Denny, Anoplur. Brit., 1842, p. 77, Pl. 4, f. 3. (Pastor roseus) = P. sturni Schrank.
- 121. penicillatus Piaget, Pédiculines, 1880, p. 22.

  (Milvus aegyptiacus, M. ater)=P. spathulatus Gbl.
- 196. peristictus Kell. & Kuw., *Proc. Wash. Acad. Sc.*, iv, 1902, p. 462, Pl. 28, f. 2. (Host uncertain. Galapagos.)
- 197. perspicuus Kellogg, Brooklyn Sc. Bull., ii, 1914, p. 83 (Corvus sp., C. Verde Is.)
- 198. pertusus Nitzsch, in Burmeister, Handbuch, ii, 1838, p. 426. (Fulica atra) [64].
- 122. phaethonus Osborn, Proc. U. S. Nat. Mus., xii, 1899, p. 189.

  (Phaethon spp.) = ? P. hexagonus Giebel.

  Quoted from Kellogg (1908). Reference incorrect. Cannot trace.

- 123. phoenicopteri Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 308. Nom. nud.
- 124. phoenicopterus Mjöberg, Arkiv f. Zool., vi, 1910, p. 127, nec Guflt, 1857. (Phoenicopterus roseus) = P. pygaspi Nitzsch.
- 199. piageti Bezzi, Soc. Ent. Ital. Bull., xxii, 1890, p. 34.
  - (Ara macao. Straggler from ibis. L. H.)

    Nom. nov. for P. bisignatus Piaget, 1885,
    p. 11, nec Nitzsch, 1866.
- 200. picae Denny, Anoplur. Brit., 1842, p. 67, Pl. 1, f. 9. (Pica caudata) [147].
- 201. pici Fabricius, Ent. Syst., Suppl., 1798, p. 570. (Picus spp.) [135].
- 125. pictus Giebel, Ins. Epiz., 1874, p. 74 = P. naevius Giebel. (Aquila chrysaëtos, A. naevius.)
- 126. pilosus Piaget, Pédiculines, 1880, p. 116, Pl. 10, f. 4. (Phoenicopterus antiquorum)=P. pygaspis N.
- 202. plataleae Denny, Anoplur. Brit., 1842, p. 100, Pl. 4, f. 9. (Platalea leucorodia) [140].
- 203. platycephalus Kell. & Kuw., Proc. Wash. Acad. Sc., iv, 1902, p. 461, Pl. 28, f. 1. (Oceanites gracilis.)
- 204. platyclypeatus Piaget, Tijd. v. Ent., xiv, 1871, p. 133, Pl. 7, f. 12. (Anastomus lamelligerus.)
- 205. platygaster Denny, Anoplur. Brit., 1842, p. 83, Pl. 2, f. 5. (Charadrius spp.) [137].
- 206. platyrhynchus Nitzsch in Giebel, Zeit. f. ges. Nat, xvii, 1861, p. 525. (Astur palumbarius) [51, 56, 90].
- 207. platystomus Nitzsch, in Burmeister, Handbuch, ii, 1838, p. 426. (Buteo vulgaris, etc.)
- 127. ploti Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 308. Nom. nud.
- 128. pluvialis 'Schilling,' Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 308. Nom. nud.
- 208. prionitis Denny, in Jardine, Ann. Mag. Nat. Hist., vi, 1841, p. 327. (Pionites bahamensis.)
- 209. procax Kell. & Chap., New Mallophaga, iii, 1899, p. 54, Pl. 5, f. 1. (Cepphus columba.)
- 210. productus Piaget, *Pédiculines*, 1880, p. 87, Pl. 6, f. 8. (*Ardea* sp., Java.)
- 211. protrusus Piaget, Tijd. v. Ent., xiv, 1871, p. 119, Pl. 6, f. 4. (Eclectus spp.)
- 212. ptilonorhynchi Ponton, Month. Micr. Journ., vi, 1871, p. 8. (Ptilonorhynchus holosericeus) [76].

- 213. pustuliferus Picaglia, Atti Soc. Ital. Sc. Nat., xxviii, 1885, p. 3. (Hydrochelidon surinamensis.)
- 214. pustulosus Nitzsch, in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 363. (Lestris spp.) [57].
- 215. pygaspis Nitzsch, in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 310. (Phoenicopterus antiquorum) [124, 126].
- 129. pyrrhulae Schrank, Beyträge, 1776, p. 117, f. 9 = P. subflavescens Geoff. (Pyrrhula vulgaris.)
- 216. quadraticeps Kellogg, New Mallophaga, i, 1896, p. 85, Pl. 3, f. 5. (Fulica americana.)
- 217. quadripustulatus Kellogg & Mann, Ent. News, xxiii, 1912, p. 57. (Pipilo carmani.)
- 218. quinquemaculatus Piaget, Pédiculines, Suppl., 1885, p. 9, Pl. 1, f. 10. (Hirundo urbica.)
- **219.** quiscali Osborn, Bull. Div. Ent., 1896, p. 219. (Quiscalus sp., Iowa.)
- **220.** ralli Denny, *Anoplur. Brit.*, 1842, p. 75, Pl. 5, f. 6. (*Rallus aquaticus.*)
- 221. reguli Denny, Anoplur. Brit., 1842, p. 91, Pl. 6, f. 4. (Regulus aurocapillus.)
- 130. rhamphasti Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 308. Nom. nud.
- 222. rostratus Nitzsch, in Burmeister, *Handbuch*, ii, 1838, p. 427. (Strix flammea) [61].
- 223. rotundatus Piaget, Pédiculines, 1880, p. 21. (Circus rufus.)
- 131. rotundatus Piaget, Pédiculines, 1880, p. 47, Pl. 3, f. 5, nec p. 21. (Corvus corone.)
- 132. rotundatus Piaget, Pédiculines, 1880, p. 60, Pl. 4, f. 7a, nec p. 21. (Phasianus pictus. Straggler from passerine.)
- 224. rotundus Rudow, Beitrag, 1869, p. 11. (Numenius phaeopus, N. linearis.)
- 133. rubeculae Schrank, Beyträge, 1776, p. 115, Pl. 5, f. 4. (Sylvia (Erithacus) rubecula) = P. subflavescens Geoffroy.
- 134. ruficeps Nitzsch, in Giebel, Ins. Epiz., 1874, p. 138. (Fringilla montana)=P. subflavescens Geoffroy.
- 225. rufus Kellogg, New Mallophaga, iii, 1899, p. 7, Pl. 1, f. 6 and 9. (Myiarchus cinerascens.)
- **226.** rutteri Kellogg, New Mallophaga, iii, 1899, p. 12, Pl. 1, f. 3. (Parus atricapillus.)
- 135. scalaris Nitzsch, in Burmeister, Handbuch, ii, 1838, p. 427. (Picus spp.) = P. pici Fabricius.

- 136. schillingi 'Giebel,' Gurlt, 1878, p. 206, see Trabeculus.
- 227. semisignatus Nitzsch, in Burmeister, *Handbuch*, ii, 1838, p. 424. (*Corvus corax*) [5, 42].
- 137. semivittatus Giebel, Ins. Epiz., 1874, p. 102 = P. platygaster Denny. (Charadrius spp.)
- 228. senegalensis Rudow, Beiträge, 1869, p. 10. (Lamprocolius nitens.)
- **229.** serenus Rudow, *Beitrag*, 1869, p. 16. (*Loxia* sp., Japan.)
- 138. serratus Gervais, Aptères, iii, 1844, p. 341, Pl. 49, f. 3. (Corvus monedula) = P. guttatus Nitzsch.
- 230. serrilimbus Nitzsch, in Burmeister, Handbuch, ii, 1838, p. 427. (Iynx torquilla.)
- 231. setifer Piaget, Pédiculines, Suppl., 1885, p. 8, Pl. 1, f. 9. (Epimachus niger.)
- 232. setosus Piaget, Pédiculines, 1880, p. 74, Pl. 5, f. 7. (Tropidorhynchus moluccensis.)
- 233. sialii Osborn, *Bült. Div. Ent.*, 1896, p. 220. (*Sialia sialis.*)
- 234. singularis Kell. & Chap., New Mallophaga, iii, 1899, p. 61, Pl. 5, f. 5. (Dryobates nuttalli.)
- 235. snyderi Kellogg and Paine, Ent. News, xxi, 1910, p. 124, f. (Sterna lunata.)
- 236. spathulatus Giebel, Ins. Epiz., 1874, p. 73. (Milvus ater) [121].
- 139. speotyti Osborn, Bull. Div. Ent., 1896, p. 222, f. 144. (Speotyto cunicularia) = P. syrnii Packard.
- 140 sphenophorus Nitzsch, in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 361. (Platalea leucorodia) = P. plataleae Denny.
- 237. splendens Giebel, Ins. Epiz., 1874, p. 79. (Strix pygmaea.)
- 141. sternae Linné, Syst. Nat., 1758, p. 612. Identity uncertain. L. H. (Sterna spp.)
- 142. stridulae Leach MS., in Denny, List Brit. An., 1852, p. 13. Nom. nud. = P. cursor Nitzsch.
- 143. strigis O. Fabricius, Faun. Groenl., 1780, p. 216, nec Scopoli, 1772. (Strix spp.)
- 144. struthionis Gervais, see Esthiopterum.
- 238. sturni Schrank, Beyträge, 1776, p. 118, Pl. 5, f. 11. (Sturnus vulgaris) [89, 113, 120].
- 239. subacutus Piaget, Pédiculines, 1880, p. 68. (Lamprotornis sp.)

- 145. subalbicans Piaget, Pédiculines, Suppl., 1885, p. 6, Pl. 1, f. 8. (Paradisea papuana) = P. papuanus Giebel.
- 146. subcompletus Burmeister, Handbuch, ii, 1838, p. 424, error for subincompletus, q.v.
- 147. subcrassipes Nitzsch, Zeit. f. ges. Nat., xxvii, 1866, p. 116. (Corvus pica) = P. picae Denny.
- **240.** subflavescens Geoffroy, *Hist. Abr. Ins.*, ii, 1762, p. 599. (Small *Passeres*) [6, 17, 30, 35, 37, 38, 39, 40, 49, 55, 63, 74, 79, 103, 115, 117, 118, 119, 129, 133, 134].
- 241. subincompletus Nitzsch, in Giebel, Ins. Epiz., 1874, p. 97, Pl. 12, f. 3. (Ciconia maguari) [146].
- **242.** sulcatus Piaget, *Tijd. v. Ent.*, xxxi, 1888, p. 149, Pl. 3, f. 2. (*Ardetts minuta.*)
- 148. superciliosus Nitzsch, in Burmeister, Handbuch, ii, 1838, p. 427. (Picus spp.) = P. auritus Scopoli.
- **243. syrnii** Packard, *Ann. Rept. U. S. Geol. Surv.*, 1872, p. 733, f. 62. (*Syrnium nebulosum*) [139].
- 149. tadornae Gervais, in error for Menopon, q.v.
- 244. taurocephalus Kellogg, New Mallophaga, ii, 1896, p. 471, Pl. 65, f. 1. (Archibuteo lagopus.)
- 245. temporalis Giebel, Ins. Epiz., 1874, p. 102. (Vanellus cristatus (vanellus)) [44].
- 246. testudinarius Denny, Anoplur. Brit., 1842, p. 96, Pl. 1, f. 6. (Numenius arquata.)
- 247. thalassidromae Denny, Anoplur. Brit., 1842, p. 103, Pl. 2, f. 6. (Thalassidroma pelagica.)
- 150. thoracicus Nitzsch, see Docophoroides.
- 248. thryptocephalus Kellogg and Paine, Rec. Ind. Mus., x, 1914, p. 232. (Graculus graculus.)
- 151. tinnunculi Guérin, Encyc. Meth., ? 1818, Pl. 254, f. 1, nec Linné, 1758. (Falco tinnunculus.)
- 152. tonsus Rudow, see Docophoroides.
- 249. trabecula Piaget, Pédiculines, 1880, p. 662, Pl. 54, f. 4. (Dicrurus remifer, Artamus leucocephalus.)
- 250. transpositus Kellogg, New Mallophaga, ii, 1896, p. 478, Pl. 65, f. 6. (Molothrus ater.)
- 251. transversifrons Carriker, Univ. Nebr. Stud., iii, 1903, p. 126, Pl. 1, f. 1. (Micrastur guerilla.)
- 252. triangularis Rudow, Zeit. f. ges. Nat., xxxv, 1870. p. 456. (Aquila brachydactylus.)

- 253. triangulifer Gervais, Aptères, iii, 1847, p. 342, Pl. 49, f. 4. (Aquila chrysaetus.)
- 254. tricolor Nitzsch, in Burmeister, Handbuch, ii, 1838, p. 424. (Ciconia nigra.)
- 153. trigonoceps Giebel, Ins. Epiz., 1874, p. 63 = P. brevicollis Nitzsch. (Vultur fulvus.)
- 154. trigonophorus Giebel, Ins. Epiz., 1874, p. 87 = P. lanii Fabricius. (Lanius ruficeps.)
- 255. truncatus Piaget, Tijd. v. Ent., xxxi, 1888, p. 149, Pl. 3, f. 3. (Aulacorhynchus rubrogularis.)
- **256**. **turdi** Denny, *Anoplur*. *Brit*., 1842, p. 76, Pl. 4, f. 5. (*Turdus musicus*.)
- 257. umbrosus Carriker, Univ. Nebr. Stud., iii, 1903, p. 126. (Leucopternis semiplumbea.)
- 155. uncinosus Giebel, see Degeeriella.
- 258. underwoodi Carriker, *Univ. Nebr. Stud.*, iii, 1903, p. 130, Pl. 1, f. 3. (*Psilorhinus mexicanus.*)
- 259. unifasciatus Piaget, Pédiculines, Suppl., 1885, p. 13, Pl. 2, f. 3. (Polyborus vulgaris. ? straggler from stork. L. H.)
- 260. uppalensis Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 455. (Phaethon aethereus.)
- **261.** upupae Schrank, Faun. Boic. 1803, p. 189. (Upupa epops.)
- 156. upupae Denny, see Degeeriella.
- 262. validus Kell. & Chap., New Mallophaga, iii, 1899, p. 56, Pl. 5, f. 2. (Puffinus opisthomelas.)
- 157. vanelli 'Schilling,' Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 308.

  Nom. nud. (Vanellus cristatus.)
- 263. variabilis Denny, Anoplur. Brit., 1842, p. 71, Pl. 3, f. 4. (Tringa (Erolia) variabilis.)
- 158. varius Giebel, 1861, p. 297, see Degeeriella.
- 264. virgo Giebel, Ins. Epiz., 1874, p. 79. (Strix superciliaris.)
- 265. viridicola Kellogg, Brooklyn Sci. Bull., ii, 1914, p. 82. (Numenius sp.)
- 266. virilis Piaget, Pédiculines, Suppl., 1885, p. 16, Pl. 2, f. 5. (Polyborus vulgaris. ? straggler from gull. L. H.)
- 159. vulturinus Kolenati, Melet. Ent., v, 1846, p. 133, Pl. 19, f. 213, 214. (Vultur fulvus) = P. brevicollis Nitzsch.
- 160. wallacei John. & Harr., Trans. N. Z. Inst., xliv, 1912, p. 369, f. 5-6. (Charadrius dominicus) = P. hawaiiensis Kell. & Chap.

# Genus 38. Degeeriella Neumann.

- 1. abrupta Osborn, Bull. Div. Ent., 1896, p. 229, Pl. 2, f. c. (Colinus virginianus.)
- 2. actophila Kell. & Chap., New Mallophaga iii, 1899, p. 78, Pl. 6, f. 4. (Calidris arenaria.)
- 1. acuminata Piaget, see Rallicola.
- **3. acuta** Piaget, *Pédiculines*, 1880, p. 148, Pl. 12, f. 6. (*Edolius* sp. Celebes.)
- 4. acutangulata Piaget, Pédiculines, 1880, p. 156, Pl. 13, f. 5. (Graculus religiosa.)
- 2. acutifrons Rudow, see Esthiopterum.
- 5. acutofasciata Piaget, Pédiculines, 1880, p. 172, Pl. 14, f. 5. (Plotus melanogaster.)
- 3. aeruginosi Leach MS., in Denny, List Brit. An., 1852, p. 16. Nom. nud. (Circus aeruginosus) = D. fusca Nitzsch.
- 6. aetherea Giebel, *Ins. Epiz.*, 1874, p. 301.

# (Simorhynchus microcerus.)

- 4. affinis Children, App. Back's Land Expedition, 1836, p. 537. (Tetrao saliceti) = D. camerata Lyonet.
- 5. affinis Nitzsch in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 298. (Garrulus glandarius) = D. glandarii Denny.
- 6. aguiae Gervais, Aptères, iii, 1847, p. 350 = D. fusca Nitzsch. (Falco aguia.)
- 7. albescens Piaget, Tijd. v. Ent., xxxiii, 1888, p. 226, Pl. 8, f. 4. (Sarcorhamphus gryphus.)
- 8. albida Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 466. (Lamprocolius nitens.)
- 9. alcae Denny, *Anoplur. Brit.*, 1842, p. 137, Pl. 9, f. 1. (*Alca torda.*)
- 10. alchatae Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 472. (Pterocles alchata, Syrrhaptes paradoxus.)
- 11. alexandrina Giebel, Ins. Epiz., 1874, p. 156. (Charadrius (Aegialitis) alexandrinus) [49].
- 12. alpha Kellogg, Brooklyn Sci. Bull., ii, 1914, p. 84. (Megalestris antarctica.)
  - 7. ambigua Giebel, Ins. Epiz., 1874, p. 119 = D. magus Nitzseh. (Cassicus cristatus.)
- 13. amblys Kellogg, New Mallophaga ii, 1896, p. 499, Pl. 67, f. 6. (Haliaetus leucocephalus.)
- 14. americana Kell. & Chap., New Mallophaga iii, 1899, p. 69, Pl. 5, f. 9. (Colymbus nigricollis.)

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- 8. ampullata Piaget, Pédiculines, Suppl., 1885, p. 25, Pl. 3, f. 4. (Cyanopolius cooki) = D. deficiens Piaget.
- 9. anagrapsa Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 376. (Sterna leucopareia) = D. phaeonota Nitzsch.
- 15. anchorata Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 370. (Penelope parrakei.)
- 16. angulata Piaget, *Pédiculines*, 1880, p. 134, Pl. 11, f. 4. (Strix flammes.)
- 10. angulicollis Giebel, see Esthiopterum.
- 11. angusta Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 364. Nom. nud. (Buteo lagopus.)
- 17. angusticeps Giebel, Ins. Epiz., 1874, p. 154.

  (Hemipodius (Turnix) pugnax.)
- 18. angustifrons Carriker, Journ. N. Y. Ent. Soc., x, 1902, p. 221, Pl. 21, f. 2. (Chondestes grammacus.)
- 12. annulata Nitzsch, see Philopterus.
- 19. ansata Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 474. (Tinamus bannaquira.)
- 20. apiastri Denny, Anoplur. Brit., 1842, p. 133, Pl. 10, f. 4. (Merops apiaster.)
- 13. appendiculata Piaget, Pédiculines, 1880, p. 132, Pl. 11, f. 2. (Milvus ater) = D. fusca Nitzsch.
- 14. aquiae 'Gervais,' Kellogg, 1908, see aquiae.
- 21. arca Piaget, Pédiculines, Suppl., 1885, p. 32, Pl. 4, f. 2. (Eurystomus afer.)
- 22. arcella Piaget, Pédiculines, Suppl., 1885, p. 31, Pl. 4, f. 1. (Agelastus meleagrides.)
- 15. argentata 'Schilling,' Gurlt, Arch. f. Naturgesch., xliv, 1878, p. 188.
  Nom. nud. (Perdix (Coturnix) coturnix.)
- 23. argula Nitzsch in Burmeister, Handbuch, ii, 1838, p. 430. (Corvus corax.)
- 24. assimilis Piaget, Proc. Ent. Soc. Lond., 1890, p. xxiii. (Aegialitis asiatica.)
- 25. asymmetrica Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 370. (Dromaius novae-hollandiae [116].
- 26. atopa Kellogg, New Mallophaga iii, 1899, p. 18, Pl. 2, f. 4. (Piaya cayana.)
- 27. atrimarginata Kell. and Chap., New Mallophaga iii, 1899, p. 75. (Larus spp.)
- 16. attenuata Nitzsch, see Rallicola.
- 28. audax Kellogg, New Mallophaga iii, 1899, p. 25, Pl. 2, f. 8. (Auriparus flaviceps.)

- 29. aurata Lyonet, Mém. du Mus., xviii, 1829, p. 272, Pl. 5, f. 9. (Larus sp.) [71]
- 30. axypyga Giebel, Ins. Epiz., 1874, p. 135. (Sturnella pyrrhocephala.)
- 31. bicolor Piaget, Pédiculines, 1880, p. 175, Pl. 14, f. 9. (Vanellus vanellus, Phalaropus lobatus.)
- 32. bicurvata Piaget, Pédiculines, 1880, p. 159, Pl. 13, f. 18. (Vidua paradisea.)
- 17. bicuspis Giebel,  $Ins.\ Epiz.$ , 1874, p. 155, Pl. 5, f. 11, 12.  $(Charadrius\ \mathrm{spp.}) = D.\ hiaticulae\ \mathrm{M\"uller}.$
- 33. biguttata Kellogg and Paine, Rec. Ind. Mus., x, 1914, p. 234. (Graculus graculus.)
- 34. bimaculata Piaget, Pédiculines, Suppl., 1885, p. 148, Pl. 16, f. 1. (Gymnorhina tibicen.)
- 35. biocellata Piaget, Pédiculines, 1880, p. 666, Pl. 50, f. 2. (Pica leucoptera.)
- **36.** bipunctata Rudow, Zeit. f. ges. Nat., xxxv, 1879, p. 466. (Corvus scapulatus.)
- 37. birostris Giebel, Ins. Epiz., 1874, p. 174. (Sterna sp. ?anaestheta.)
- 18. biseriata Children, App. Back's Land Exp., 1836, p. 258. (Recurvirostra americana) = D. testudinaria Children.
- 38. bisetacea Piaget, Pédiculines, Suppl., 1885, p. 27, Pl. 3, f. 6. (Eurycerus prevostii.)
- 39. boephila Kellogg, New Mallophaga, i, 1896, p. 107, Pl. 5, f. 7. (Aegialitis vocifera) [96].
- **40.** brachythorax Giebel, *Ins. Epiz.*, 1874, p. 134, Pl. 12, f. 8. (*Ampelus garrula.*)
- 41. bracteata Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 369. (Dacelo gigas.)
- **42.** brasiliensis Giebel, *Ins. Epiz.*, 1874, p. 134. (*Tanagra brasiliensis.*)
- 43. brevipes Piaget, Pédiculines, 1880, p. 179, Pl. 15, f. 3. (Tringa subarquata.)
- 44. brunnea Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 373. (Dromas ardeola.)
- **45.** brunneipicta Giebel, Zeit. f. ges. Nat., xlix, 1877, p. 530. (Lophalector vielloti.)
- 19. burmeisteri Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 364. Nom. nud. (Falco rutipes.)
- 20. buteonivora Packard, see Laemobothrion.

- 45a. caementica Nitzsch in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 117. (Lophophorus refulgens.)
- **46.** caliginea Carriker, *Univ. Nebr. Stud.*, iii, 1903, p. 144, Pl. 3, f. 2. (*Turdus grayi.*)
- 47. camerata Nitzsch in Lyonet, Mém. du Mus., xviii, 1829, p. 267, Pl. 4, f. 6. (Lyrurus tetrix) [4, 94, 107].
- 21. candida Nitzsch, Zeit. f. ges. Nat., xxvii, 1866, p. 117 = D. straminea Denny. (Picus spp.)
- 22. capensis Rudow, see Esthiopterum.
- 48. caracarensis Kellogg and Mann, Ent. News, xxxiii, 1912, p. 59. (Polyborus lutosus.)
- **49.** caspia Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 375. (Sterna caspia) [58].
- 23. castanea Piaget, see Esthiopterum.
- 24. catenata 'Schilling,' Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 310.
  Nom. nud. (Turdus torquatus.)
- 50. cedrorum Piaget, Pédiculines, 1880, p. 151, Pl. 12, f. 2. (Ampelis cedrorum.)
- 25. cephalotes Nitzsch, see Paronchophorus.
- 26. cephaloxys Nitzsch, see Philopterus.
- 27. charcoti Neumann, see Esthiopterum.
- 28. chelidonia Schrank, Faun. Boic., 1803, p. 194. Unrecognisable. ("Spurschwalbe.")
- 29. chelura Nitzsch in Giebel, Ins. Epiz., 1874, p. 150. (Scythrops novaehollandiae) = D. lipeuriformis Rud.
- **51. cingulata** Nitzsch in Denny, *Anoplur. Brit.*, 1842, p. 146, Pl. 11, f. 3. (*Limosa limosa* &c.)
- 30. citrina Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 378. (Alca torda &c.) = D. alcae Denny.
- 31. claviformis Denny, see Esthiopterum.
- 52. clypeata Kellogg and Paine, Rec. Ind. Mus., x, 1914, p. 237. (Corvus cornix.)
- colymbina Scopoli, Ent. Carn., 1763, p. 384.
   (Colymbus sp.) [50, 112].
- 32. complanata [Piaget] Neumann, see Goniodes.
- 54. complexiva Kell. & Chap., New Mallophaga iii, 1899, p. 75, Pl. 6, f. 3. (Calidris, Tringa spp.)
- 55. coniceps Piaget, Pédiculines, 1880, p. 136, Pl. 11, f. 6. (Cranorrhinus cassidix.)
- 56. connexa Kellogg and Mann, Ent. News, xxiii, 1912, p. 13. (Phalaropus lobatus.)

- **57.** cordata Osborn, *Bull. Div. Ent.*, 1896, p. 228, Pl. 2, f. a. (*Limosa* spp.)
- **58.** crassiceps Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 473. (Rhynchotus rufescens.)
- **59.** \*crassipedalis Nom. nov. for crassipes Piaget, 1885, nec Denny, 1852. (Thinocorus rumicivorus) [34].
- 33. crassipes Denny, List Brit. An., 1852, p. 21. Nom. nud.
- 34. crassipes Piaget, Pédiculines, Suppl., 1885, p. 30, Pl. 3, f. 10, nec Denny, 1852. (Thinocorus rumicivorus) = D. crassipedalis Harrison.
- 60. crinita Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 468. (Chrysolophus pictus.)
- 61. cruciata Burmeister, Handbuch, ii, 1838, p. 429.

### (Lanius collurio.)

- 35. cuculi Denny, Anoplur. Brit., 1842, p. 120, Pl. 10, f. 11. (Cuculus canorus) = D. latirostris Burmeister.
- **62.** cursoria Mjöberg, Arkiv f. Zool., vi, 1910, p. 141. (Cursorius gallicus.)
- 63. curvilineata Kell. and Kuw., Proc. Wash. Acad. Sc., iv, 1902, p. 470, Pl. 29, f. 4. (Buteo galapagensis.)
- 36. cuspidata Denny, see Rallicola.
- 64. cyclothorax Nitzsch in Burmeister, *Handbuch*, ii, 1838, p. 429. (*Fringilla* spp.) [133].
- 65. decipiens Nitzsch in Denny, Anoplur. Brit., 1842, p. 125, Pl. 2, f. 2. (Recurvirostra avocetta.)
- 66. deficiens Piaget, Pédiculines, Suppl., 1885, p. 23, Pl. 3, f. 3. (Cyanopolius cooki) [8].
- 67. delicata Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 368. (Emberiza citrinella &c.) [88].
- 68. densilimba Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 368. (Carduelis carduelis.)
- **69. dentata** Mjöberg, *Arkiv f. Zool.*, vi, 1910, p. 143. (*Platalea* sp.)
- 37. depressa Rudow, see Esthiopterum.
- diaprepes Kell. and Chap. Journ. N. Y. Ent. Soc., x, 1902, p. 158,
   Pl. 13, f. 4. (Vestiaria coccinea.)
- 71. dilatatofasciata Piaget, Pédiculines, 1880, p. 147, Pl. 12, f. 4. (Eudynamis cyanocephala.)
- 38. diomedeae Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 310. Nom. nud.
- 72. discocephala Nitzsch in Burmeister, *Handbuch*, ii, 1838, p. 430. (*Haliaetus albicilla*, &c.)
- 39. dispar Piaget, see Esthiopterum.

- 73. divergens Neumann, Bull. Soc. Toulouse, xxiv, 1890, p. 62. (Pezoporus terrestris.)
- 74. docophoroides Piaget, Pédiculines, Suppl., 1885, p. 19, Pl. 2, f. 8. (Tchitrea affinis.)
- 75. domestica Kellogg and Chapman, New Mallophaga iii, 1899, p. 93. (Hirundo erythrogastra.)
- 76. ductilis Kell. and Chap., New Mallophaga iii, 1899, p. 89, Pl. 6, f. 8. (Empidonax difficilis.)
- 77. elliptica Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 371. (Glareola spp.)
- 40. elongata Denny, Anoplur. Brit., 1842, p. 140, Pl. 7, f. 4.  $(Delichon\ urbica) = D.\ gracilis\ Nitzsch.$
- 78. emarginata Kell. and Chap., Journ. N. Y. Ent. Soc., x, 1902, p. 159. (Anous stolidus.)
- **79.** eos Giebel, *Ins. Epiz.*, 1874, p. 181, *nom. nov.* for *tenuis* Rudow, 1870, *nec* Burmeister, 1838.

# (Cacatua roseicapilla) [136.]

- 80. epustulata Carriker, Univ. Nebr. Stud., iii, 1903, p. 133. (Accipiter bicolor.)
- 81. erythropteri Piaget, Pédiculines, Suppl., 1885, p. 28, Pl. 3, f. 8. (Melittophagus pusillus.)
- 82. eugrammica Nitzsch in Burmeister, Handbuch, ii, 1838, p. 428. (Larus minutus.)
- 83. euprepes Kell. and Chap., Journ. N. Y. Ent. Soc., x, 1902, p. 21, Pl. 3, f. 1. (Arenaria interpres.)
- 84. eustigma Kellogg, New Mallophaga ii, 1896, p. 493, Pl. 67, f. 3. (Trochilus (Calypte) annæ.)
- 85. euzonia Nitzsch in Giebel, Zeit. f. ges. Nat., xvii, 1861, p. 521. (Gypaetus barbatus.)
- 86. exigua Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 366. (Ruticilla titys.)
- 41. fallax Giebel, see Philopterus.
- 42. farallonii Kellogg, see Esthiopterum.
- 43. fasciata Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 468. (Hierofalco islandus) = D. fusca Nitzsch.
- 87. felix Giebel, *Ins. Epiz.*, 1874, p. 175. (*Larus heermani.*)
- 44. fenestrata Nitzsch, Zeit. f. ges. Nat., xxvii, 1866, p. 117. (Cuculus canorus) = D. latirostris Burmeister.
- 88. fimbriata Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 374. (Steganopus tricolor.)

- 45. fissa Burmeister, Handbuch, ii, 1838, p. 427 = D. hiaticulae Müller. (Ægialitis hiaticula &c.)
- 46. flavida Giebel, Ins. Epiz., 1874, p. 301 = D. fusca Nitzsch. (Buteo jakal.)
- 89. foeda Kellogg and Chapman, New Mallophaga iii, 1899, p. 87, Pl. 6, f. 7. (Many Passerines U.S.A.)
- 90. francisi Carriker, Univ. Nebr. Stud., iii, 1903, p. 139, Pl. 2, f. 5. (Zarhynchus wagleri.)
- 91. frater Piaget, Pédiculines, 1880, p. 145, Pl. 12, f. 2. (Lamprocolius purpureus.)
- 92. frontata Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 378. (Colymbus spp.)
- 47. fulicae Denny, see Rallicola.
- 48. fulva Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 364. Nom. nud. (Aquila fulva.)
- 93. fulvofasciata Grube, *Midd. Sib. Reise*, 1851, p. 475, Pl. 31, f. 1. (*Tringa* spp.)
- 94. fulvoguttata Mjöberg, Arkiv f. Zool, vi, 1910, p. 139. (Phalaropus fulicarius.)
- 95. funebria Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 371. (Aramus giganteus.)
- **96.** furva Nitzsch in Burmeister, *Handbuch*, ii, 1838, p. 427. (*Totanus* spp.) [84, 119].
- 97. fusca Nitzsch in Denny, Anoplur. Brit., 1842, p. 118, Pl. 9, f. 8. (Many Accipitrines) [3, 6, 13, 43, 46, 63, 66, 68, 100, 106, 110, 120, 126, 155].
- 49. fusca Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 371. (Ægialitis alexandrina &c.) = D. alexandrina Giebel.
- **98.** fuscofasciata Grube, *Midd. Sib. Reise*, 1851, p. 475, Pl. 1, f. 1. (*Tringa* spp.)
- 99. fuscolaminulata Enderlein, Deutsch. Sudpol. Exp., x, ii, 1909, p. 447. (Larus dominicanus.)
- 50. fuscomarginata Denny, Anoplur. Brit., 1842, p. 136, Pl. 10, f. 1. (Podiceps auritus) = D. colymbina Scopoli.
- 100. galapagensis Kell. and Kuw., Proc. Wash. Acad. Sc., iv, 1902, p. 471, Pl. 29, f. 5.

(Passerines, Galapagos.)

- galapagensis Kell. and Kuw., Proc. Wash. Acad. Sc., iv., 1902,
   p. 474. (Geospiza spp.)
- 52. giganticola Kellogg, see Esthiopterum.

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- 53 gigas Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 364. Nom. nud. (Vultur fulvus.)
- 101. glandarii Denny, Anoplur. Brit., 1842, p. 129, Pl. 8, f. 3. (Garrulus glandarius) [5].
- 54. glavica Stephens, Catalogue, ii, 1829, p. 332. Nom. nud. (Haematopus ostralegus.)
- 102. gloriosa Kell. and Kuw., Proc. Wash. Acad. Sc., iv, 1902, p. 467, Pl. 29, f. 1.

### (Anous stolidus.)

- 55. glyphica Nitzsch in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 304. Nom. nud. (Opisthocomus hoazin.)
- 103. goniocotes Piaget, Pédiculines, Suppl., 1885, p. 33, Pl. 4, f. 3. (Dacelo gigas.)
- **104. goniodes** Piaget, *Pédiculines*, 1880, p. 665, Pl. 55, f. 1. (*Coua serriana.*)
- 105. gracilis Nitzsch in Burmeister, Handbuch, ii, 1838, p. 429. (Delichon urbica) [40].
  - 56. graculae Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 310. Nom. nud.
- 57. grammica Gervais, Aptères, iii, 1847, p. 350 = D. punctata Nitzsch. (Tringa spp.)
- 106. grandiceps Piaget, Tijd. v. Ent., xxxi, 1888, p. 150, Pl. 3, f. 4. (Penelopides manillae.)
- 58. grisea Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 466.  $(Sterna\ caspia) = D.\ caspia$  Giebel.
- 107. gulosa Nitzsch, Zeit. f. ges. Nat., xxvii, 1866, p. 117. (Certhia familiaris) [142].
- 108. haematopi Denny, Anoplur. Brit., 1842, p. 126, Pl. x, f. 3. (Haematopus ostralegus.)
  - 59. haliei Gurlt, Arch. f. Naturgesch., xxxiii, 1857, p. 310. Nom. nud.
- 109. hastiformis Carriker, Univ. Nebr. Stud., iii, 1903, p. 136, Pl. 2, f. 2. (Trogon caligatus.)
- 110. hawaiiensis Kell. and Chap., Journ. N. Y. Ent. Soc., x, 1902, p. 159. (Charadrius fulvus.)
- 111. hebes Kellogg, New Mallophaga i, 1896, p. 101, Pl. 5, f. 3. (Sterna maxima.)
- 112. hectica Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 366. (Sericulus melinus.)
- 113. hemichroa Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 372. (Himantopus himantopus.)
- 114. heteroscelis Nitzsch, Zeit. f. ges. Nat., xxvii, 1866, p. 118. (Picus martius.)

- 115. heterotypa Meinert, Parasites, 1880, p. 87. (Lophophorus refulgens.)
- 60. hexophthalma Nitzsch, see Strigiphilus.
- 116. hiaticulae Müller in O. Fabricius, Faun. Groen., 1780, p. 220. (Ægialitis hiaticula) [17, 45].
- 117. holophaea Nitzsch in Burmeister, Handbuch, ii, 1838, p. 427. (Machetes pugnax &c.)
- 118. hoplopteri Mjöberg, Arkiv f. Zool., vi, 1910, p. 137. (Hoplopterus spinosus.)
- 119. hospes Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 371. (Vanellus squatorolus = Squatorola helvetica &c.)
  - 61. hypoleuca Nitzsch, see Esthiopterum.
- **120.** iliaci Denny, Anoplur. Brit., 1842, p. 130, Pl. 9, f. 4. (*Turdus iliacus*) [64].
- 121. illustris Kellogg, New Mallophaga ii, 1896, p. 494, Pl. 67, f. 4. (Agelaius phoenicius.)
- **122.** immaculata Piaget, *Tijd. v. Ent.*, xxxiii, 1888, p. 230, Pl. 8, f. 7. (*Oedicnemus crepitans.*)
- 123. imperialis Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 363. Nom. nud. (Aquila imperialis.)
- 62. inaequalis Piaget, Pédiculines, 1880, p. 176, Pl. 15, f. 1. (Numenius arquata) = D. phaeopi Denny.
- 63. incerta Piaget, Pédiculines, Suppl., 1885, p. 20, Pl. 2, f. 9. (Totanus nebularius. Straggler from hawk. L.H.) = D. fusca Nitzsch.
- 124. incoenis Kell. and Chap., New Mallophaga iii, 1899, p. 81, Pl. 6, f. 5. (Squatarola helvetica.)
- 125. infecta Kell. and Kuw., Proc. Acad. Nat. Sci. Phila., 1900, p. 153, Pl. 7, f. 2. (Phalaropus fulicarius.)
- 126. infrequens Carriker, Journ. N. Y. Ent. Soc., x, 1902, p. 220, Pl. 20,
   f. 3. (Calcarius lapponicus.)
- 64. intermedia Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 366. (Turdus torquatus) = D. iliaci Denny.
- 65. intermedia Giebel, Ins. Epiz., 1874, p. 169 = D. mystax Giebel. (Ortygometra porzana), see Rallicola.
- 127. interposita Kellogg, New Mallophaga iii, 1899, p. 23, Pl. 2, f. 7. (Dendroica bryanti.)
- 128. interrupta Piaget, Pédiculines, 1880, p. 173, Pl. 14, f. 6. (Phalacrocorax carbo.)
- **129.** juncea Scopoli, *Ent. Carn.*, 1763, p. 384. (*Vanellus vanellus*) [143].

130. juno Giebel, Ins. Epiz., 1874, p. 137.

(Coccothraustes europaeus.)

- 131. kilimandjarensis Kellogg, Schwed. Exp. Kilimandjaro, 1910, p. 46, Pl. 7, f. 3. (Colymbus capensis.)
  - 66. kunzei Giebel, Ins. Epiz., 1874, p. 125 = D. fusca Nitzsch. (Falco tinnunculus.)
- 132. lais Giebel, *Ins. Epiz.*, 1874, p. 134. (*Luscinia lusciola.*)
  - 67. lamprotornis Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 310. Nom. nud.
- 133. laticeps Piaget, Tijd. v. Ent., xxxi, 1888, p. 152, Pl. 3, f. 5. (Aulacorhynchus rubrogularis.)
- 134. latifasciata Piaget, *Pédiculines*, 1880, p. 143, Pl. 11, f. 11. (Xulla mangola.)
- 135. latirostris Burmeister, Handbuch, ii, 1838, p. 429. (Cuculus canorus) [35, 44].
- 136. lautiuscula Kell. and Chap., New Mallophaga iii, 1899, p. 90, Pl. 6, f. 9. (Amphispiza belli.)
- 137. lepida Kell. and Kuw., *Prov. Wash. Acad. Sc.*, iv, 1902, p. 473, Pl. 29, f. 7. (*Geospiza fuliginosa* &c.)
- 138. leucocephala Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 365. (Corvus albicollis.)
  - 68. leucopleura Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 364. (Falco brachydactylus) = D. fusca Nitzsch.
- 139. ligulata Neumann, Bull. Soc. Toulouse, xxiv, 1890, p. 60. (Chrysotis brasiliensis.)
- 140. limbata Nitzsch in Burmeister, Handbuch, ii, 1838, p. 429. (Loxia spp.) [102.]
- 141. lineata Piaget, *Pédiculines*, 1880, p. 204, Pl. 16, f. 7. (*Larus sabinei*.)
  - 69. lineolata Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 376. (Larus spp.) = D. ornata Grube.
- 142. lingulata Waterston, Ann. Sth Afric. Mus., x, 1914, p. 285. (Larus hartlaubi.)
- 143. lipeuriformis Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 470 (Scythrops novaehollandiae) [29].
  - 70. lipogona [Nitzsch] Neumann, Bull. Soc. Zool. France, 1914, p. 147, see Ornicholax.
  - 71. longicollis Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 467. (Sterns cantiacs) = D. aurata Lyonet.
- 144. longipes Piaget, Pédiculines, 1880, p. 169, Pl. 13, f. 9. (Scissirostrum pagei.)

- 145. longa Kellogg, New Mallophaga, ii, 1896, p. 160, Pl. 13, f. 9. (Tachycineta bicolor.)
- 146. lota Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 371. (Cursorius isabellinus.)
- 147. lucida Kellogg and Mann, Ent. News, xxiii, 1912, p. 60. (Limosa fedoa.)
  - 72. lugens Giebel, see Rallicola.
  - 73. lunata Schilling, Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 310.

    Nom. nud.
- 74. luprepes Kellogg and Chapman, error for euprepes, q.v.
- **148.** macrocephala Waterston, Ann. S. Afr. Mus., x, 1914, p. 284, Pl. 25, f. 2, 5. (Aegialitis spp.).
- 149. magnocephala Carriker, Journ. N. Y. Ent. Soc., x, 1902, p. 218, Pl. 20, f. 4. (Gallinago delicata.)
- **150.** magus Nitzsch in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 301. (Cassicus cristatus) [7].
- **151.** major Kellogg, *New Mallophaga* iii, 1899, p. 15, Pl. 2, f. 2. (*Tringa* sp.)
- 152. mandarina Giglioli, Quart. Journ. Micr. Sci., iv, 1864, p. 22. (Merula mandarina.)
- 153. marginalis Nitzsch in Burmeister, *Handbuch*, ii, 1838, p. 431. (*Turdus pilaris.*)
- 154. marginata Burmeister, Handbuch, ii, 1838, p. 429.

Burmeister, 1838.

- (Turdus pilaris.)
  75. marginata Osborn, Bull. Div. Ent., 1896, p. 228, Pl. 2, f. 6, nec
  - (Ceophloeus pileatus) = marginatula Harrison.
- 155. \*marginatula Nom. nov. for marginata Osborn, 1896, nec Burmeister, 1838. (Ceophloeus pileatus) [75].
- **156.** marginella Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 368. (*Prionornis momota.*)
- 157. maritima Kell. & Chap., New Mallophaga iii, 1899, p. 72, Pl. 6, f. 1. (Several Alcidae.)
- 158. melanococa Carriker, Univ. Nebr. Stud., iii, 1903, p. 141, Pl. 2, f. 6. (Piranga bidentata.)
  - 76. melanonyx Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 310. Nom. nud.
  - 77. melanophrys Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 369. (Upupa epops) = D. upupae Denny.
  - 78. menura Le Souëf and Bullen, Vict. Nat., xviii, 1902, p. 157, f. 7. (Menura superba) = D. menuraelyrae Coinde.

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- 159. menuraelyrae Coinde, Bull. Soc. Imp. Nat. Mosc., xxxii, 1859, p. 424. (Menura superba) [78, 95, 130, 131].
- 79. meropis 'Denny,' Gurlt, 1857, p. 310, see Philopterus.
- 80. merulae Leach MS., in Denny, List. Brit. An., 1852, p. 18. Nom. nud. = D. merulensis Denny.
- 160. merulensis Denny, *Anoplur. Brit.*, 1842, p. 128, Pl. 7, f. 1. (*Turdus merula.*)
- 161. minhaensis Kell. & Chap., Journ. N. Y. Ent. Soc., x, 1902, p. 157, Pl. 13, f. 2. (Acridotheres tristis.)
  - 81. mesomelas Nitzsch in Giebel, Ins. Epiz., 1874, p. 174 = D. nycthemera Nitzsch.

### (Sterna minuta.)

- 82. minuta Nitzsch, see Rallicola.
- 162. modularis Piaget, Pédiculines, 1880, p. 151.

### (Accentor modularis.)

- 163. munda Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 366. (Oriolus galbula.)
  - 83. mystax Giebel, see Rallicola.
  - 84. naumanni Giebel, Ins. Epiz., 1874, p. 163 = D. furva Nitzsch (Totanus gilvipes.)
- 164. nebulosa Burmeister, Handbuch, ii, 1838, p. 429.

# (Sturnus vulgaris.)

- 165. nesiotes Kellogg and Mann, Ent. News, xxiii, 1912, p. 60.
  (Haematopus (? Haemophila) bachmani.
  ? Straggler from Toucan.)
- 166. nigrescens Evans, Scottish Naturalist, 1912, p. 280.

# (Lagopus mutus.)

- 167. nigricans Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 471. (Grus (Balearica) pavonina.)
- 168. nigrolimbata Mjöberg, Arkiv f. Zool., vi, 1910, p. 135. (Scolopax sp.)
- 169. nigromarginata Piaget, Pédiculines, 1880, p. 166, Pl. 14, f. 1. (Euplocamus (Gennaeus) horsfieldi.)
- 170. nigropicta Carriker, Journ. N. Y. Ent. Soc., x, 1902, p. 219, Pl. 21,
   f. 1. (Pica pica hudsonica.)
- 171. nigrosignata Piaget, Pédiculines, 1880, p. 157, Pl. 13, f. 6. (Gracula javanensis.)
- 85. nisa Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 364. Nom. nud.
- 86. nitzschi Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 364. Nom. nud.
- 87. nitzschi Ponton, Month. Micr. Journ., vi, 1871, p. 8, Pl. 91, f. 2. (Ptilonorhynchus holosericeus) = D. pontoni J. and H.

- 88. nivalis Giebel, Ins. Epiz., 1874, p. 140 = D. delicata Nitzsch. (Emberiza nivalis.)
- 172. normifer Grube, Midd. Sib. Reise, ii, 1851, p. 478, Pl. 1, f. 8. (Lestris richardsoni) [141].
  - 89. nuda Giebel, Zeit. f. ges. Nat., lii, 1877, p. 475. Nom. nud.
- 90. numidae Denny, see Lipeurus.
- 173. numenii Denny, *Anoplur. Brit.*, 1842, p. 144, Pl. 9, f. 6. (*Numenius arquata.*)
- 174. nycthemera Nitzsch in Burmeister, Handbuch, ii, 1838, p 428. (Sterna minuta) [81, 150].
- **175. obliqua** Mjöberg, *Arkiv f. Zool.*, vi, 1910, p. 148. (*Uria troile.*)
- 176. obscura Burmeister, Handbuch, ii, 1838, p. 427. (Totanus glareola.)
- 177. obtusa Kell. and Kuw., *Proc. Wash. Acad. Sc.*, iv, 1902, p. 468, Pl. 29, f. 2. (*Sterna fuliginosa.*)
- 178. ochropi Denny, Anoplur. Brit., 1842, p. 134, Pl. 11, f. 12. (Totanus ochropus.)
- 179. ochropyga Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 372. (Haematopus ostralegus.)
- 180. oculata Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 465. (Bubo virginianus.)
- 181. oedicnemi Denny, Anoplur. Brit., 1842, p. 138, Pl. 7, f. 8. (Oedicnemus crepitans.)
- 182. olivacea Nitzsch in Burmeister, *Handbuch*, ii, 1838, p. 431. (*Nucifraga caryocatactes.*)
- 183. oliveri Johnston and Harrison, Trans. N. Z. Inst., xliv, 1912, p. 367, f. 3. (Numenius variegatus.)
- 184. opaca Kellogg and Chapman, New Mallophaga iii, 1899, p. 83, Pl. 6, f. 6. (Aegialitis semipalmata.)
  - 91. opisthocomi Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 310. Nom. nud.
- 185. opisthotoma Kellogg, Schwed. Exp. Kilimandjaro, 1910, p. 46, Pl. 7, f. 4. (Himantopus himantopus.)
- 186. oraria Kellogg, New Mallophaga i, 1896, p. 104, Pl. 5, f. 5. (Charadrius dominicus.)
- 92. orioli Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 310. Nom. nud.
- 187. ornata Grube, *Midd. Sib. Reise*, ii, 1843, p. 477, Pl. 31, f. 4. (*Larus canus*) [69, 127].
- 188. ornatissima Giebel, Ins. Epiz., 1874, p. 144. (Agelaius phoenicurus.)

- 189. orphea Osborn, Bull. Div. Ent., 1896, p. 227. (Galeoscoptes carolinensis.)
- 190. ovalis Neumann, Bull. Soc. Toulouse, xxiv, 1890, p. 61. (Dasyptilus pesqueti, Eclectus polychlorus.)
- 191. oxypyga Giebel, Ins. Epiz., 1874, p. 135. (Sturnella pyrrhocephala.)
- 192. pacifica Kellogg and Chapman, New Mallophaga iii, 1899, p. 70, Pl. 5, f. 8. (Lunda cirrhata.)
- 193. pallida Piaget, Pédiculines, 1880, p. 144, Pl. 11, f. 12. (Ptilonorhynchus buccoides.)
  - 93. pallida Osborn, Bull. Div. Ent., 1896, p. 227, nec Piaget, 1880. (Habia (? Lanius) Iudoviciana)=D. pallidula Harrison.
  - 94. pallidovittata Grube, Midd. Sib. Reise, ii, 1843, p. 474, Pl. 31, f. 3. (Tetrao urogallus) = D. camerata Lyonet.
- 194. \*pallidula Nom. nov. for pallida Osborn, 1896, nec Piaget, 1880. (Habia (? Lanius) Iudoviciana) [93].
- 195. paludicola Kell. and Kuw., Proc. Wash. Acad. Sci., iv, 1902, p. 469, Pl. 29, f. 3. (Butorides plumbeus.)
- 196. paraboliceps Piaget, Pédiculines, 1880, p. 135, Pl. 11, f. 5. (Microglossus aterrimus.)
  - 95. paraboliceps Piaget, Tijd. v. Ent., xxxiii, 1889, p. 224. (Menura superba) = D. menuraelyrae Coinde.
- 197. parabolocybe Carriker, Univ. Nebr. Stud., iii, 1903, p. 137, Pl. 2, f. 3. (Muscivora tyrannus.)
- 198. paradoxa Giebel, Ins. Epiz., 1874, p. 165. (Phalaropus hyperboreus) [132].
  - 96. parallela Osborn, Bull. Div. Ent., 1896, p. 229, Pl. 2, f. d. (Aegialitis vocifera) = D. boephila Kellogg.
  - 97. parvula Piaget, see Rallicola.
- 199. peninsularis Kellogg, New Mallophaga iii, 1899, p. 21, Pl. 2, f. 9. (Phainopepla nitens.)
- 200. phaeonota Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 375. (Sterna spp.)
- 201. phaeopi Denny, Anoplur. Brit., 1842, p. 144, Pl. 10, f. 7. (Numenius phaeopus) [62, 98].
- 98. phaeopodis Giebel, Ins. Epiz., 1874, p. 166 = phaeopi Denny.
- 202. phalaropi Denny, Anoplur. Brit., 1842, p. 139, Pl. 8, f. 6.
- 203. přívctopyga Nitzsch in Giebel, Zeit. f. ges. Nat., xvii, 1861, p. 526. (Pernis apivorus.)
- **204.** picta Mjöberg, *Arkiv f. Zool.*, vi, 1910, p. 145. (*Uria grylle.*)

**205.** picturata Osborn, Bull. Div. Ent., 1896, p. 226.

(Sturnella magna.)

- 99. pilea Nitzsch in Giebel, Zeit. f. ges. Nat., xxvii, 1866, p. 373.

  (Recurvirostra avocetta) = D. testudinaria
  Children.
- 206. platyclypeata Piaget, Pédiculines, 1880, p. 145, Pl. 12, f. 1. (Motacilla alba.)
- 100. platyrhyncha Lyonet, Mém. Mus., xviii, 1829, p. 270, Pl. 5, f. 4. (Accipiter nisus) = D. fusca Nitzsch.
- 101. ploti Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 310. Nom. nud.
- **207.** podicipis Denny, *Anoplur. Brit.*, 1842, p. 142, Pl. x, f. 9. (*Podiceps* spp.)
- 208. pontoni Johnston and Harrison, Proc. Roy. Soc. Queensland, xxiv, 1912, p. 12. (Ptilonorhynchus holosericeus) Nom. nov. for D. nitzschi Ponton, nec Giebel [87].
- **209.** praestans Kellogg, *New Mallophaga* i, 1896, p. 99, Pl. 5, f. 1, 2. (*Sterna maxima.*)
- 102. propinqua Giebel, Ins. Epiz., 1874, p. 136 = D. limbata Nitzsch. (Loxia pityopsittacus.)
- 210. pseudonirmus Nitzsch in Giebel, Ins. Epiz., 1874, p. 167. (Numenius arquata.)
- **211.** pseudophaea Carriker, *Univ. Nebr. Stud.*, iii, 1903, p. 142, Pl. 3, f. 1. (*Pezopetes capitalis.* Straggler from hawk.)
- 103. psittaci Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 310. Nom. nud.
- 104. pteroclis Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 310. Nom. nud.
- **212.** ptiliogonis Carriker, *Univ. Nebr. Stud.*, iii, 1903, p. 143. (*Ptiliogonys caudatus.*)
- 213. punctata Nitzsch in Burmeister, *Handbuch*, ii, 1838, p. 428. (*Larus* spp.) [57].
- 105. punctata Giebel, Ins. Epiz., 1874, p. 156 = D. punctulata Giebel. (Charadrius morinellus.)
- 214. punctulata Giebel, Ins. Epiz., 1874, p. 301, nom. nov. for punctata Giebel, nec Nitzsch.

### (Charadrius morinellus) [105].

215. quadrangularis Rudow, Beitrag, 1869, p. 18.

(Corvus scapulatus.)

- 106. quadraticollis Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 469 = D. fusca Nitszeh. (Falco rufipes.)
- 216. quadrilineata Nitzsch, Zeit. f. ges. Nat., xxvii, 1866, p. 117. (Parus caudatus.)
- 217. quadrisetacea Piaget, Pédiculines, 1880, p. 668, Pl. 55, f. 5. (Rhynchaea variegata.)

- 107 quadrulata Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 370. (Tetrao urogallus) = D. camerata Lyonet.
- 218. rallina Denny, Anoplur. Brit., 1842, p. 137, Pl. 8, f. 7. (Rallus aquaticus.)
- 219. rava Kellogg, New Mallophaga iii, 1899, p. 14, Pl. 2, f. 1. (Actitis macularia.)
- 108. recurvirostrae Linné, Syst. Nat., 1758, p. 613. Not recognisable.
- 109. recurvirostrae Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 310. Nom. nud.
- 110. regalis Giebel, Ins. Epiz., 1874, p. 127 = D. fusca Nitzsch. (Milvus regalis.)
- 220. rhamphasti Carriker, Univ. Nebr. Stud., iii, 1903, p. 135, Pl. 2, f. 1. (Rhamphastos tocard.)
- 221. ridgwayi Kellogg, Trans. Amer. Ent. Soc., xxxii, 1906, p. 317. (Haematopus galapagensis.)
- 111. rostrata Giebel, see Philopterus.
- 222. rotundata Osborn, Bull. Div. Ent., 1896, p. 226. (Corvus americanus.)
- 223. rufa Nitzsch in Burmeister, Handbuch, ii, 1838, p. 430. (Falco tinnunculus and other hawks.)
- 224. ruficeps Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 367. (Fringilla montana.)
- 112. runcinata Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 386. (Podiceps cristatus) = D. colymbina Scopoli.
- 225. sacra Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 375. (Ibis sacra.)
- 226. satelles Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 365. (Epimachus regius.)
- 227. scalaris Piaget, Pédiculines, 1880, p. 190, Pl. 17, f. 2. (Machetes pugnax.)
- 228. scolopacis Denny, Anoplur. Brit., 1842, p. 149, Pl. 11, f. 8. (Scolopax gallinago) [144, 147].
- 229. sculpta Kolenati, Sitzber. Math. Nat. Akad. Wiss. Wien, xxix, 1858, p. 249, Pl., f. 6.

### (Diplopterus naevius.)

- 230. secondaria Osborn, Bull. Div. Ent., 1896, p. 227. (Corvus americanus.)
- 231. sellata Burmeister, *Handbuch*, ii, 1838, p. 428. (Sterna hirundo) [114, 123].
- 113. sellata Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 470, nec Burmeister.
  (Phasianus lineatus) = D. subsellata Harrison.

- 114. selliger Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 376. (Sterna hirundo) = D. sellata Burmeister.
- 232. semiannulata Piaget, Tijd. v. Ent., xxvi, 1883, p. 156. (Gymnorhina leuconota.)
- 115. semicincta Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 310. Nom. nud.
- 233. semicingulata Piaget, Tijd. v. Ent., xxxiii, 1889, p. 231, Pl. 8, f. 8. (Strepsilas collaris.)
- 234. semifissa Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 372. (Himantopus rufipes.)
- 235. separata Kell. and Kuw., *Proc. Wash. Acad. Sc.*, iv, 1902, p. 472, Pl. 29, f. 6. (*Passerines*, Galapagos.)
- **236.** seta Piaget, *Pédiculines*, 1880, p. 667, Pl. 55, f. 4. (*Muscicapa* sp. Celebes.)
- 116. setosa Le Souëf and Bullen, Vict. Nat., xviii, 1902, p. 157, f. 5, 6. (Dromaeus novaehollandiae) = D. asymmetrica Nitzsch.
- 117. setosa Giebel, see Pelmatocerandra.
- 118. setosa [Piaget] Neumann, see Ornicholax.
- 237. sexmaculata Piaget, Pédiculines, 1880, p. 666, Pl. 55, f. 3. (Dicrurus retifer.)
- 238. signata Piaget, Pédiculines, 1880, p. 186, Pl. 15, f. 8. (Recurvirostra avocetta.)
- 119. similis Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 374 = D. furva Nitzsch. (Totanus glottis.)
- 239. simplex Kellogg, New Mallophaga ii, 1896, p. 492, Pl. 67, f. 2. (Merula migratoria.)
- 120. socialis Giebel, Ins. Epiz., 1874, p. 127 = D. fusca Nitzsch. (Circus cineraceus.)
- 121. spinosa [Piaget] Neumann, see Goniodes.
- 240. splendida Kellogg, New Mallophaga, iii, 1899, p. 16, Pl. 2, f. 3, 6. (Polyborus cheriway.)
- 122. squalida Nitzsch (1861), see Esthiopterum.
- 123. stellata Gervais, Aptères, iii, 1847, p. 346 = D. sellata Burmeister.
- 124. stenopyga Nitzsch, see Acidoproctus.
- 125. stenopyx Burmeister, see Acidoproctus.
- 126. \* stenorhyncha Giebel, Ins. Epiz., 1874, p. 129 = D. fusca Nitzsch. (Milvus aetolius.)
- **241.** stenozona Kell. and Chap., *Journ. N. Y. Ent. Soc.*, x, 1902, p. 158, Pl. 13, f. 3. (*Munia nisoria.*)
- 242. stictochroa Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 374. (Dromas ardeola.)

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- 243. straminea Denny, Anoplur. Brit., 1842, p. 139, Pl. 8, f. 9. (Picus spp.) [21].
- 244. strepsilaris Denny, Anoplur. Brit., 1842, p. 135, Pl. 11, f. 4. (Strepsilas interpres) [128].
- 127. striolata Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 377. (Larus glaucus) = D. ornata Grube.
- 245. subacuta Piaget, Pédiculines, 1880, p. 137, Pl. 11, f. 7. (Scissirostrum pagei.)
- 128. subcingulata Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 372. (Strepsilas interpres) = D strepsilaris Denny.
- 246. subcuspidata Nitzsch in Burmeister, Handbuch, ii, 1838, p. 430. (Coracias garrula.)
- 129. subfusca 'Schilling,' Gurlt, Arch. f. Naturgesch., xliv, 1878. Nom. nud.
- 130. submarginalis Burmeister, Handbuch, ii, 1838, p. 431 = D. menuraelyrae Coinde. Nom. nud.

### (Menura superba.)

- 131. submarginella Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, 368. (Menura superba) = D. menuraelyrae Coinde.
- 132. subscalaris Piaget, Pédiculines, 1880, p. 189, Pl. 17, f. 1 = D. paradoxa Giebel. (Phalaropus hyperboreus.)
- 247. \*subsellata nom. nov. for sellata Rudow, 1870, nec Burmeister, 1838. (Phasianus lineatus) [113].
- 133. subtilis Nitzsch in Giebel, Ins. Epiz., 1874, p. 137. (Fringilla montana) = D. cyclothorax Nitzsch.
- **243.** sulphurea Giebel, Zeit. f. ges. Nat., xlvii, 1876, p. 528. (*Trogon* sp.)
- 134. superciliosa Nitzsch, see Philopterus.
- 135. sylviae Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 310. Nom. nud.
- 249. taurus Giebel, Zeit. f. ges. Nat., xlvii, 1876, p. 247. (Buceros leucopygus.)
- **250.** temporalis Piaget, *Tijd. v. Ent.*, xxxi, 1888, p. 228, Pl. 8, f. 6. (*Buceros manillensis.*)
- 251. tenuis Nitzsch in Burmeister, Handbuch, ii, 1838, p. 429. (Hirundo riparia.)
- 136. tenuis Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 471 = D. eos Giebel. (Cacatua roseicapilla.)
- 137. tessellata Denny, Anoplur. Brit., 1842, p. 121, Pl. 7, f. 2. Type is an immature specimen, in bad preservation, of a species of Lipeurus. Discard.
- 252. testudinaria Children, App. Back's Land Exp., 1836, p. 538. (Recurvirostra americana) [18, 99].

- 138. thoracica Packard, sec Ricinus.
- 253. tinami Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 473. (Tinamus bannaquira.)
- 139. tocani Coinde, Bull. Soc. Nat. Mosc., xxxii, 1859, p. 425. Nom. nud.
- 140. trabeculus [Piaget] Neumann, see Esthiopterum.
- 141. triangulata Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 378. (Lestris spp.) = D. normifer Grube.
- 254. trimaculata Piaget, Pédiculines, 1880, p. 174, Pl. 14, f. 8. (Ciconia leucocephala.)
- 142. trimarginis Carriker, Journ. N. Y. Ent. Soc., x, 1902, p. 222, Pl. 20, f. 2. (Certhia familiaris montanus) = D. gulosa Nitzsch.
- 143. tringae Schrank, Faun. Boic., 1803, p. 190 = D. juncea Scopoli. (Tringa spp.)
- **255.** trinota Piaget, *Tijd. v. Ent.*, xxxiii, 1888, p. 227, Pl. 8, f. 5. (*Macrocercus macao.*)
- 144. tristis Giebel, Ins. Epiz., 1874, p. 163 = D. scolopacis Denny. (Scolopax gallinago.)
- 145. tristis Giebel, Ins. Epiz., 1874, p. 168, nec p. 163. (Luscinia rubecula.)
- 256. trithorax Burmeister, Handbuch, ii, 1838, p. 429. (Fringilla cucullata.)
- 146. trochili Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 310. Nom. nud.
- 147. truncata Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 375. (Scolopax gallinago) = D. scolopacis Denny.
- 148. turmalis Denny, see Esthiopterum.
- **257. tyranna** Osborn, *Bull. Div. Ent.*, 1896, p. 228. (*Tyrannus* sp. U.S.A.)
- 258. umbrina Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 371. (Scopus umbretta.)
- 259. unicolor Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 371. (Otis tarda.)
- 260. uncinosa Nitzsch in Burmeister, *Handbuch*, ii, 1838, p. 430. (*Corvus cornix* &c.)
- 149. upupae Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 311. Nom. nud.
- 150. urniger Nitzsch in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 315. (Sterna minuta) = D. nycthemera Nitzsch.
- 151. urogalli Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 311. Nom. nud.
- 152. vagans Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 364. Nom. nud. (Astur palumbarius.)
- 153. vanelli Schrank, Faun. Boic., 1903, p. 190. Not recognisable.

- 154. vanelli Denny, Anoplur. Brit., 1842, p. 128, Pl. 7, f. 6. (Vanellus griseus.)
- 261. varia Nitzsch in Burmeister, Handbuch, ii, 1838, p. 430. (Corvus frugilegus &c.)
- 262. virgata Kellogg, New Mallophaga iii, 1899, p. 19, Pl. 2, f. 5. (Amblycercus holosericeus.)
- **263. viscivori** Denny, *Anoplur. Brit.*, 1842, p. 124, Pl. 7, f. 7. (*Turdus viscivorus.*)
- 155. vittata Giebel, Ins. Epiz., 1874, p. 127 = D. fusca Nitzsch. (Milvus ater &c.)
- **264.** vulgata Kellogg, New Mallophaga, ii, 1896, p. 496, Pl. 67, f. 5. (Many Passeres, U.S.A.)
- 156. vulturis Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 311. Nom. nud.
- 265. xanthocephala Osborn, Bull. Div. Ent., 1896, p. 224. (Xanthocephalus xanthocephalus.)
- 266. zonaria Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 374. (Tringa minuta &c.)

#### Genus 39. Psittaconirmus Harrison.

1. australis Harrison, Parasitology, vii, 1915, p. 430, f. 7, 12–14. (Glossopsittacus, Trichoglossus.)

### Genus 40. Rallicola Johnston and Harrison.

- 1. acuminata Piaget, Pédiculines, Suppl., 1885, p. 27, Pl. 3, f. 7. (Ardea agretta.)
- 2. advena Kellogg, New Mallophaga i, 1896, p. 133, Pl. 11, f. 1, 2. (Fulica americana &c.) [3].
- 3. affinis Piaget, Pédiculines, 1880, p. 217, Pl. 18, f. 3. (Rougetius bernieri.)
- attenuata Nitzsch in Denny, Anoplur. Brit., 1842, p. 134, Pl. 10, f. 2.
   (Crex pratensis) = R. ortygometrae Schrank.
- 4. bisetosa Piaget, Pédiculines, 1880, p. 217, Pl. 18, f. 4. (Rallina spp.)
- cuspidata Scopoli, Ent. Carn., 1763, p. 385.
   (Fulica atra) [2, 4].
- 6. fallax Piaget, Pédiculines, 1880, p. 220, Pl. 18, f. 6. (Porphyrio melanotus.)
- 7. flavescens Piaget, Pédiculines, Suppl., 1885, p. 37, Pl. 4, f. 7. (Himantornis haematopus.)
- 2. fulicae Denny, Anoplur. Brit., 1842, p. 125, Pl. 9, f. 2.  $(Fulica\ atra) = R.\ cuspidata\ Scopoli.$

- 8. lugens Giebel, Ins. Epiz., 1874, p. 170. (Porphyrio poliocephalus.)
- 9. major Piaget, Tijd. v. Ent., xxxi, 1888, p. 153, Pl. 3, f. 6. (Ocydromus lafresnayanus.)
- 3. minutotrabeculata Osborn, Bull. Div. Ent., 1896, p. 221. (Fulica americana) = R. advena Kellogg.
- 4. minuta Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 375. (Gallinula chloropus &c.)=R. cuspidata Scopoli.
- 10. mystax Giebel, Ins. Epiz., 1874, p. 301. (Ortygometra porzana.)
- 11. ortygometrae Schrank, Ins. Aust., 1781, p. 503. (Crex pratensis) [1].
- 12. parvula Piaget, Pédiculines, 1880, p. 669, Pl. 55. f. 6. (Gallinula chloropus.)
- 13. porzanae Piaget, Pédiculines, 1880, p. 218. (Porzana novaeboracensis.)
- 14. subfallax Piaget, Pédiculines, 1880, p. 221, Pl. 18, f. 7. (Porphyrio melanopterus.)
- 15. turbinata Piaget, Tijd. v. Ent., xxiii, 1888, p. 233, Pl. 8, f. 10. (Mycteria senegalensis.)
- 16. unguiculata Piaget, Pédiculines, 1880, p. 671, Pl. 55, f. 8. (Eurylaimus cucullatus.)

#### Genus 41. Parricola Harrison.

sulcata Piaget, Pédiculines, 1880, p. 218, Pl. 18, f. 5.
 (Parra spp.)

#### Genus 42. Aptericola Harrison.

- 1. gadowi Harrison, Parasitology, viii, 1915, p. 90, f. 1, 2. (Apteryx australis, A. mantelli.)
- 2. gracilis Harrison, Parasitology, viii, 1915, p. 93, f. 6. (Apteryx haasti.)
- 3. novae-zealandiae Harrison, Parasitology, viii, 1915, p. 92, f. 3-5. (Apteryx lawryi, A. oweni.)

## Genus 43. \*Paroncophorus Harrison.

- 1. cephalotes Piaget, Pédiculines, Suppl., 1885, p. 35, Pl. 4, f. 5. (Buceros spp.)
- 2. latifrons Piaget, Pédiculines, Suppl., 1885, p. 36, Pl. 4, f. 6. (Buceros semifasciatus.)
- 3. major Piaget, Pédiculines, Suppl., 1885, p. 149, Pl. 16, f. 2. (Buceros nepalensis.)

## Genus 44. Strigiphilus Mjöberg.

- 1. heterocerus Nitzsch in Giebel, Zeit. f. ges. Nat., xvii, 1861, p. 527. (Strix bubo.)
- 2. hexophthalmus Nitzsch in Giebel, Zeit. f. ges. Nat., xvii, 1861, p. 528. (Strix nyctea.)
- 3. remotus Kell. and Chap., New Mallophaga iii, 1899, p. 107, Pl. 7, f. 7. (Scotiaptex cinerea.)

# Genus 45. Paragoniocotes Cummings.

- 1. **abnormis** Kellogg, *Journ. N. Y. Ent. Soc.*, xiv, 1906, p. 46, Pl. 2, f. 3. (*Ara chloroptera.*)
- 2. fasciatus Piaget, Pédiculines, 1880, p. 236, Pl. 19, f. 11. (Callopsittacus novaehollandiae.)
- 3. gripocephalus Cummings, Ann. Mag. Nat. Hist., xvii, 1916, p. 101. (Chrysotis augusta.)

# Sub-family g. Acidoproctinae Harrison.

## Genus 46. Acidoproctus Piaget.

- 1. bifasciatus Piaget, Tijd. v. Ent., xxi, 1878, p. 181, Pl. 12, f. G. (Dendrocygna viduata.)
- Kelloggi Carriker, Journ. N. Y. Ent. Soc., x, 1902, p. 228, Pl. 22, f. 1, 2. (Aythya vallisneria.)
- 3. marginatus Piaget, Tijd. v. Ent., xxi, 1878, p. 179, Pl. 12, f. C. (Larus spinicauda. Straggler. L. H.)
- 4. maximus Piaget, Tijd. v. Ent., xxi, 1878, p. 183, Pl. 12, f. E-F. (Dendrocygna arborea.)
- 5. moschatae Linné, Syst. Nat., 1758, p. 612. (Anas moschata.)
- 1. rostratus Rudow, Beitrag, 1869, p. 46 = A. marginatus Piaget. (Chenalopex aegyptiacus.)
- 6. stenopygus Nitzsch in Giebel, *Ins. Epiz.*, 1874, p. 179, Pl. 8, f. 6, 7. (*Anas rufina.*)
- 2. stenopyx Nitzsch in Burmeister = stenopygus, q.v.

# Genus 47. Ornithobius Denny.

- 1. anseris Gurlt, see Esthiopterum.
- 2. atromarginatus Denny, Anoplur. Brit., 1842, p. 185, Pl. 23, f. 3. (Cygnus spp.) = 0. goniopleurus Denny.
- 3. bucephalus Giebel, Ins. Epiz., 1874, p. 239 = O. cygni L. (Cygnus spp.)

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- 1. cygni Linné, Syst. Nat., 1758, p. 612. (Cygnus spp.) [3, 4, 6].
- 4. cygnorum Vollenhoven, Dier. v. Nederland, 1860, Pl. 8, f. 4, for cygni, q.v.
- 2. fuscus Le Souëf, Vic. Nat., xix, 1902, p. 91. (Chenopsis atratus.)
- **3.** goniopleurus Denny, *Anoplur. Brit.*, 1842, p. 184, Pl. 23, f. 3. (*Cygnus* spp.) [2].
- 4. klinkowstroemi Mjöberg, Arkiv f. Zool., vi, 1910, p. 97. (Anser leucopsis.)
- 5. mathisi Neumann, Arch. Parasit., xv, 1912, p. 382, f. 29. (Anser domesticus.)
- 5. minor 'Schilling,' Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 311. Nom. nud. (Cygnus minor.)
- 6. punctatus Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 139 = O. cygni L. (Cygnus musicus.)
- 7. rostratus Rudow, see Acidoproctus.

## Genus 48. Bothriometopus Taschenberg.

- 1. macrocnemis Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 382. (Palamedea cornuta.)
- similimus Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 382.
   (Chauna chavaria.)

# Genus 49. Heteroproctus Harrison.

1. hilli Harrison, *Parasitology*, vii, 1915, p. 394, f. 8–11. (*Anseranas semipalmata.*)

# Sub-family h. Esthiopterinae Harrison.

# Genus 50. Esthiopterum Harrison.

- 1. abnorme Piaget, Pédiculines, Suppl., 1885, p. 65, Pl. 7, f. 2. (Puffinus kuhli.)
- 2. absitum Kellogg, Zoologica, 1910, p. 119, f. 39. (Opisthocomus cristatus.)
- 1. abyssinicum Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 379. Nom. nud. (Buceros (Bucorax) abyssinicus.)
- 3. acutifrons Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 138. (Phalacrocorax capensis) [26, 42].
- 4. aequale Piaget, Pédiculines, 1880, p. 314, Pl. 26, f. 1. (Phoenicophaeus calorhynchus.)

- 5. aetheronomum Nitzsch in Giebel, Zeit. f. ges. Nat., xvii, 1861, p. 517. (Sarcorhamphus gryphus.)
- 6. afer Kellogg, Schwed. Zool. Exp. Kilimandjaro, 1910, p. 47, Pl. 7, f. 5. (Phalocrocorax africanus.)
- 7. albidum Piaget, Pédiculines, 1880, p. 300, Pl. 24, f. 5. (Coracopsis spp.)
- 8. albipes Piaget, Pédiculines, Suppl., 1885, p. 81, Pl. 8, f. 9. (Buceros semifasciatus.)
- 2. album Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 309. Nom. nud.
- 3. album Le Souëf and Bullen, Vict. Nat., xviii, 1902, p. 157, f. 4, nec Gurlt, 1857. (Cacatua galerita) = E. capreolum Gervais.
- 4. alchatae Rudow, see Degeeriella.
- 5. anastomi Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 309. Nom. nud.
- 6. anatis Fabricius, Syst. Ent. Suppl., 1798, p. 571 = E. crassicorne Scopoli. (Anas spp.)
- 7. angulicolle Gicbel, Ann. Mag. Nat. Hist., xvii, 1876, p. 388. (Diomedea exulans) = E. pederiforme Dufour.
- 9. angusticeps Piaget, Pédiculines, 1880, p. 306, Pl. 25, f. 4. (Priofinus cinereus.)
- 10. angustissimum Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 382. (Hemipodius pugnax.)
  - 8. angustissimum-Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 384. Nom. nud. (Ibis rubra.)
  - 9. angustolimbatum Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 386 (Anas nigra) = E. crassicorne Scopoli.
- 10. angustum Rudow, Beitrag, 1869, p. 34 = E. columbae L. (Phaps chalcoptera.)
- 11. annulatum Piaget, *Pédiculines*, 1880, p. 340, Pl. 27, f. 10. (Sula fusca.)
- 12. anseris Linné, Syst. Nat., 1758, p. 612. (Anser cinereus) [36, 37, 38, 71, 72, 130].
- 13. antilogum Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 383. (Otis tetrax.)
- 14. ardeae Linné Syst. Nat., 1758, p. 613. (Ardea cinerea) [11, 12, 78].
- 11. ardeae-cinereae [Linné] Fabricius, Syst. Ent., 1794, p. 422=E. ardeae L.
- 12. ardealis 'Frisch,' Scopoli, Ent. Carn., 1763, p. 384 = E. ardeae L.
- 13. argalum Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 383. Nom. nud. (Ciconia argala.)
- argentinum Kellogg, Journ. N. Y. Ent. Soc., xiv, 1906, p. 46, Pl. 2,
   f. 2. (Plegadis guarana.)

- **16.** assessor Giebel, *Ins. Epiz.*, 1874, p. 207.
  - (Gypagus papa.)
- 17. asymmetricum Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 132. (Chenalopex aegyptiacus.)
- 14. asymmetricum Piaget, Pédiculines, Suppl., 1885, p. 54, Pl. 6, f. 2, nec Rudow, 1870.
  - (Rhea spp.) = E. rheae Harrison.
- 15. atromarginatum [Denny] Giebel, see Ornithobius.
- 18. australe Rudow, Beitrag, 1869, p. 38.

# (Cereopsis novaehollandiae.)

19. atratum Piaget, Pédiculines, 1880, p. 312.

#### (Ardea caledonica.)

- 16. bacillum Nitzsch in Giebel, Ins. Epiz., 1874, p. 215. (Columba spp.) = E. columbae L.
- 17. baculum Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 379. (Columba spp.) = E. columbae L.
- 18. bassanae [Denny] Evans, see Pectinopygus.
- 20. bergi Kellogg, Journ. N. Y. Ent. Soc., xiv, 1906, p. 45, Pl. 2, f. 1. (Guira guira.)
- **21.** bicolor Piaget, *Tijd. v. Ent.*, xxxi, 1888, p. 157, Pl. 4, f. 1. (*Tantalus senegalensis.*)
- 22. bifasciatum Piaget, Pédiculines, 1880, p. 342, Pl. 28, f. 1. (Pelecanus spp.)
- 19. bilineatum Stephens, Syst. Cat., ii, 1829, p. 333. Nom. nud. (Fulmarus glacialis.)
- 23. botauri Osborn, Bull. Div. Ent., 1896, p. 234. (Botaurus lentiginosus.)
- 24. breviceps Piaget, Tijd. v. Ent., xxxi, 1888, p. 160, Pl. 4, f. 3. (Camptolaemus cinereus.)
- 20. breviceps Piaget, Tijd. v. Ent., xxxiii, 1889, p. 243, Pl. 9, f. 6. (Diomedea exulans) = E. pederiforme Dufour.
- 25. brevicorne Denny, Anoplur. Brit., 1842, p. 181, Pl. 13, f. 8. (Phalocrocorax cristatus.)
- 21. brevicorne Piaget, Pédiculines, 1880, p. 337, Pl. 27, f. 6.  $(Phalacrocorax \ sulcirostris) = E. \ confusum$  Bag. and Hall.
- 22. breve Dufour, see Docophoroides.
- 26. brevisignatum Piaget, Pédiculines, 1880, p. 336.

### (Phalacrocorax javanicus.)

- 23. brunneum Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 309. Nom. nud.
- 24. bucephalum Giebel, see Ornithobius.
- 25. buceri Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 309. Nom. nud.

- 26. capense Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 469 = E. acutifrons Rudow. (Phalacrocorax capensis.)
- 27. capitatum Piaget, Pédiculines, Suppl., 1885, p. 63, Pl. 6, f. 9. (Ibis hagedasch.)
- 28. capreolum Gervais, Aptères, iii, 1847, p. 353. (Cacatua galerita) [3].
- 27. castaneum Piaget, Pédiculines, Suppl., 1885, p. 82, Pl. 9, f. 1. (Ciconia leucocephala) = E. ciconiae L.
- 28. caudatum Rudow, Beitrag, 1869, p. 31. Not recognisable. Discard. (Priocella glacialoides.)
- 29. cavifrons Taschenberg, Nova Acta, 1842, p. 124 = E. columbae L. (Carpophaga spp.)
- 30. celer Kellogg, New Mallophaga, i 1896, p. 117, Pl. 7, f. 5, 6. (Fulmaris glupischa) = E. nigrolimbatum Gb.
- 29. charcoti Neumann, Exp. Antarct. Franc., 1907, p. 15. (Pagodroma nivea.)
- **30.** ciconiae Linné, Syst. Nat., 1758, p. 613. (Ciconia alba) [27, 54, 86, 147, 150].
- 31. circumfasciatum Piaget, Pédiculines, 1880, p. 301, Pl. 24, f. 6. (Platycercus spp.)
- **32.** clypeatum Giebel, *Ins. Epiz.*, 1874, p. 236. (*Halobaena coerulea*) [111].
- 31. coloratum Piaget, Pédiculines, 1880, p. 346 = E. crassicorne Scopoli. (Anas melanotus.)
- 33. columbae Linné, Syst. Nat., 1758, p. 614. (Columba spp.) [10, 16, 17, 28, 53].
- **34. comstocki** Kell. and Chap., *Journ. N. Y. Ent. Soc.*, x, 1902, p. 23, Pl. 3, f. 2. (*Rallus virginianus*.)
- concinnum Kell. and Chap., New Mallophaga iii, 1899, p. 97, Pl. 7,
   f. 2. (Diomedea albatrus &c.)
- 32. confidens Kellogg, New Mallophaga iii, 1899, p. 26, Pl. 3, f. 1. (Diomedea nigripes) = E. giganticola Kellogg.
- 36. confusum Bagnall and Hall, Journ. Econ. Biol., vii, 1912, p. 9. (Phalacrocorax sulcirostris) [21].
- 33. constrictum Kellogg, New Mallophaga i, 1896, p. 125, Pl. 8, f. 7, 8. (Oidemia spp.) = E. crassicorne Scopoli.
- 34. corvi Packard, see Philopterus.
- 35. corythaicis Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 379. Nom. nud. (Corythaix persa.)
- 37. crassicorne Scopoli, Ent. Carn., 1763, p. 383.

  (Anas spp.) [6, 9, 31, 33, 41, 56, 62, 76, 87, 99, 119, 126, 135, 136, 141].

- 36. crassicorne Olfers, De vegetativis &c., 1816, p. 88 = E. anseris L. (Anser cinereus.)
- **38. crenatum** Giebel, *Ins. Epiz.*, 1874, p. 237. (*Fregata* spp.)
- 37. cygnoides Rudow, Z. f. ges. Nat., xxxv, 1870, p. 129 = E. anseris L. (Cygnopsis cygnoides.)
- 38. cygnopse Rudow, Z. f. ges. Nat., xxxv, 1870, p. 129 = E. anseris L. (Cygnopsis cygnoides.)
- 39. dennyi Giebel, Ins. Epiz., 1874, p. 211 = E. quadripustulatum Nitzsch. (Aquila chrysaetos.)
- 40. densum Kellogg, New Mallophaga i, 1896, p. 114, Pl. 7, f. 1, 2. (**Diomedea** spp.) = E. diomedeae Fabr.
- 39. depressum Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 472.

  (Halieus brasiliensis = Phalacrocorax vigua.)
- 41. depuratum Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 385. (Anas strepera) = E. crassicorne Scopoli.
- **40.** diomedeae Fabricius, *Syst. Ent.*, 1775, p. 808. (*Diomedea exulans*) [40, 52].
- 42. dispar Piaget, Pédiculines, 1880, p. 174, Pl. 14, f. 7 = E. acutifrons Rudow. (Phalacrocorax sulcirostris.)
- 43. dispar Piaget, Pédiculines, Suppl., 1885, p. 79, Pl. 8, f. 7 (nec 1880). (Corythus macrorhynchus) = E. distinctum Harrison.
- **41.** \*distinctum nom. nov. for dispar Piaget, 1885, nec, 1880. (Corythus macrorhynchus) [43].
- **42.** diversum Kellogg, New Mallophaga i, 1896, p. 123, Pl. 8, f. 3, 4. (*Puffinus* spp.) [79].
- **43.** docophorum Giebel, Ins. Epiz., 1874, p. 214. (Buceros abyssinicus.)
- 44. eatoni Kellogg, see Pelmatocerandra.
- 45. ebraeum Nitzsch in Burmeister, Handbuch, ii, 1838, p. 435 = E. gruis L. (Grus communis.)
- 46. elongatum Packard, Amer. Nat., iv, 1870, p. 95. No host. Not recognisable. Discard.
- 47. elongatum Piaget, Pédiculines, 1880, p. 297, Pl. 24, f. 3, = E. quadrioculatum N. (Aquila spp.)
- 44. emarginatum Piaget, Pédiculines, 1880, p. 328, Pl. 28, f. 2. (Totanus ochropus.)
- **45.** epiphanes Kellogg and Paine, Ent. News, xxii, 1911, p. 21, f. 2. ("Desert Curlew.")
- 48. excavatum Johnston and Harrison, Trans. N. Z. Inst., xliv, 1912, p. 366, f. 2. (Aestrelata neglecta) = E. kermadecense J. and H.

- 49. exiguum Kell. and Kuw., Proc. Wash. Acad. Sc., iv, 1902, p. 479, Pl. 30, f. 2. (Oceanites gracilis) = E. pelagicum Denny.
- 46. Neumann, Arch. Parasit., xv, 1913, p. 631. exile (Comatibus comata) [63].
- 47. exilicorne Piaget, Pédiculines, 1880, p. 679, Pl. 56, f. 9. (Sterna sp.)
- 48. falcicorne Giebel, Ins. Epiz., 1874, p. 244. (Centropus menebecki.)
- farallonii Kellogg, New Mallophaga i, 1896, p. 193, Pl. 5, f. 4. 49. (Phalacrocorax penicillatus.)
- fasciatum Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 309. Nom. nud. 50.
- fasciatum Piaget, Pédiculines, 1880, p. 320 = E. stellare Denny. 51. (Ardea (Botaurus) stellaris.)
- femoratum Piaget, Pédiculines, 1880, p. 675, Pl. 56, f. 4. 50. (Eclectus sp.)
- ferox Giebel, Zeit. f. ges. Nat., xxix, 1867, p. 195 = E. diomedeae 52. Fabricius. (Diomedea melanophrys.)
- 53. filiforme Olfers, De vegetativis etc., 1816, p. 90 = E. columbae L. (Columba livia.)
- fissomaculatum Giebel, Ins. Epiz., 1874, p. 225 = E. ciconiae L. (Mycteria crumenifera.)
- foedum Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 387. 51. (Psophia crepitans.)
- 52. forcipatum Piaget, Pédiculines, Suppl., 1885, p. 72, Pl. 8, f. 1. (Buceros albocristatus.)
- 53. forficula Piaget, Pédiculines, Suppl., 1885, p. 83, Pl. 9, f. 2. (Epimachus albus.)
- 54. forficulatum Zeit. f. ges. Nat., xxviii, 1866, p. 386. (Pelecanus spp.)
- 55. forficuloides Neumann, Bull. Soc. Toulouse, xxiv, 1890, p. 65. (Platycercus multicolor.)
- 56. forte Taschenberg, Nova Acta, xliv, 1882, p. 126, Pl. 3, f. 11. (Otidiphaps nobilis.)
- 55.frater Giebel, Ins. Epiz., 1874, p. 210 = E. monile Nitzsch. (Neophron percnopterus.)
- *56*. frater Giebel, Ins. Epiz., 1874, p. 242 = E. crassicorne Scopoli. (Anas glacialis.)
- fulicae Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 309. Nom. nud. 57.
- fuliginosum Taschenberg, Nova Acta, xliv, 1882, p. 156, Pl. 4, f. 3. (*Diomedea* spp.) [144.]
- fulvofasciatum Picaglia, Atti Soc. Ital. Sc. Nat., xxviii, 1885, p. 4. 58. (Conurus monachus.)

- 59. fulvum Piaget, Pédiculines, Suppl., 1885, p. 70, Pl. 7, f. 7. (Thinochorus rumicivorus.)
- 58. gaini Neumann, Deux. Exp. Antarct. Fr., 1913, p. 192. (Macronectes giganteus) = E. obscurum Rudow.
- 60. gambense Piaget, Pédiculines, Suppl., 1885, p. 64, Pl. 7, f. 1. (Plectropterus gambensis.)
- 61. genitale Piaget, Pédiculines, Suppl., 1885, p. 58, Pl. 6, f. 5. (Leptoptilus crumenifer.)
- 62. giganteum Le Souëf, Vict. Nat., xviii, 1902, p. 156, f. 1. (Antigone australasiana.)
- **63.** giganticola Kellogg, New Mallophaga i, 1896, p. 105, Pl. 5, f. 6. (*Diomedea albatrus*) [32, 95].
- 59. glyphicum Nitzsch in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 304. Nom. nud. (Opisthocomus cristatus.)
- 60. goniopleurum Denny, see Ornithobius.
- 61. gracile Packard, Amer. Nat., iv, 1870, p. 95, Pl. 1, f. 6. No host.

  Not recognisable. Discard.
- 62. gracile Giebel, Ins. Epiz., 1874, p. 242 = E. crassicorne Scopoli. (Anas spectabilis.)
- 63. gracile Neumann, Arch. Parasit., xv, 1912, p. 377, f. 21, 22. (Comatibis comata) = E. exile Neumann.
- **64.** gracilentum Piaget, *Tijd. v. Ent.*, xxxiii, 1888, p. 244, Pl. 9, f. 7. (*Ibis rubra.*)
- 65. gracilicorne Piaget, Pédiculines, 1880, p. 309, Pl. 25, f. 6. (Fregata minor.)
- 64. grande Piaget, Pédiculines, 1880, p. 323, Pl. 26, f. 7 = E. modestum Giebel. (Lestris spp.)
- **66.** gruis Linné, Syst. Nat., 1758, p. 613. (Grus communis (grus)) [45, 66, 91].
- 67. gurlti Taschenberg, Nova Acta, xliv, 1882, p. 151, Pl. 5, f. 6. (Daption capense) [83].
- 65. gypogerani Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 279. Nom. nud. (Gypogeranus (Serpentarius) serpentarius.)
- **68.** gyricorne Denny, *Anoplur. Brit.*, 1842, p. 167, Pl. 25, f. 1. (Sula australis.)
- 69. gyrocerum Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 386. (Halieus brasiliensis = Phalacrocorax vigua.)
- 66. hebraeum Nitzsch in Giebel, Ins. Epiz., 1874, p. 226, Pl. 16, f. 5, 6. (Grus spp.) = E. gruis L.
- 70. helleri Kell. and Kuw., Proc. Wash. Acad. Sc., iv, 1902, p. 479, Pl. 30, f. 3. (Sula spp.)

- 71. helvolum Nitzsch in Burmeister, *Handbuch*, ii, 1838, p. 433. (Scolopax rusticola.)
- 67. hexophthalmum Nitzsch, see Paroncophorus.
- **72.** houbarae Barthélemy, *Ann. Soc. Ent. Fr.*, v, 1836, p. 689, Pl. 20, f. B (*Otis houbara.*)
- 73. hyalinum Neumann, Brit. Antarct. Exp., 1911, p. 21, f. (Diomedea exulans.)
- 74. hypoleucum Nitzsch in Denny, Anoplur. Brit., 1842, p. 141, Pl. 6, f. 8. (Caprimulgus europaeus.)
- 75. \*ibidis Nom. nov. for ibis Le Souëf and Bullen, 1902, nec Gurlt, 1857. (Ibis molucca) [69].
- 68. ibis Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 309. Nom. nud.
- 69. ibis Le Souëf and Bullen, Vict. Nat., xviii, 1902, p. 156, f. 2, nec Gurlt, 1857. (Ibis molucca) = E. ibidis Harrison.
- 76. infuscatum Osborn, Bull. Div. Ent., 1896, p. 234, Pl. 2, f. e, f. (Philohela minor, Bartramia longicauda.)
- 70. intermedium Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 309. Nom. nud.
- 77. interruptofasciatum Piaget, Pédiculines, 1880, p. 302, Pl. 24, f. 7. (Eclectus spp.)
- 71. jejunum Nitzsch in Denny, Anoplur. Brit., 1842, p. 177, Pl. 15, f. 4. (Anser spp.) = E. anseris L.
- 78. kea Kellogg, Psyche, 1907, p. 122. (Nestor notabilis.)
- 79. kermandecense John. & Harr., Trans. N. Z. Inst., xliv, 1912, p. 365, f. 1. (Aestrelata neglecta) [48].
- 72. lacteum Giebel, Ins. Epiz., 1874, p. 243 = E. anseris L. (Anas tadorns.)
- 73. laculatum Kellogg and Chapman, New Mallophaga iii, 1899, p. 93, Pl. 7, f. 1. (Stercorarius spp.) = E. modestum Giebel.
- 74. laeve Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 140 = E. pederiforme Dufour. (Diomedea sp.)
- 75. languidum Kell. and Kuw., Proc. Wash. Acad. Sc., iv, 1902, p. 475, Pl. 29, f. 8. (Cceanites gracilis &c.) = E. pelagicum Denny.
- 80. latum Piaget, *Pédiculines*, 1880, p. 330, Pl. 25, f. 1. (*Rhea americana.*)
- 76. lepidotum Rudow (? ref. as in No. 99, p. 139).
  (Aix sponsa) = E. crassicorne Scopoli.
- 81. lepidum Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 383. (Anastomus coromandelicus) [133].
- 77. lepturum Enderlein, Deutsch. Süd-polar Exp., x, 1909, p. 453. (**Diomedea** sp.) = E. obscurum Rudow.

- 82. leucoproctum Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 384. (Ardea purpurea.)
- 78. leucopygum Nitzsch in Burmeister, Handbuch, ii, 1838, p. 434.  $(Ardea\ cinerea) = E.\ ardeae\ L.$
- 79. limitatum Kellogg, New Mallophaga i, 1896, p. 124, Pl. 8, f. 5, 6. (Puffinus spp.) = E. diversum Kellogg.
- 83. lineare Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 384. (Tachydromus isabellinus) [81].
- 80. lineare Rudow, Zeit. f. ges. Nat., xxxv, 1870, p. 131 = E. loculator Giebel. (Tantalus loculator.)
- 81. lineatum Nitzsch in Giebel, Ins. Epiz., 1874, p. 230 = E. lineare Nitzsch. (Tachydromus isabellinus.)
- 84. loculator Giebel,  $Ins.\ Epiz.$ , 1874, p. 228. (Tantalus loculator) [80].
- **85.** longiceps Rudow, Zeit. f. ges. Nat., xxxvi, 1870, p. 122. (Carpophaga spp.) [106].
- 86. longicorne Piaget, Pédiculines, 1880, p. 334, Pl. 27, f. 3. (Phalacrocorax carbo.)
- 87. longipes Piaget, Pédiculines, 1880, p. 329, Pl. 28, f. 3. (Tinamus obsoletus.)
- 82. longipilum Kellogg, New Mallophaga i, 1896, p. 119, Pl. 7, f. 7. (Fulica americana) = E. luridum Nitzsch.
- 88. longisetaceum Piaget, Pédiculines, Suppl., 1885, p. 57, Pl. 6, f. 4. (Tinamus solitarius.)
- 83. lugubre Taschenberg, Nova Acta, xliv, 1882, p. 153, Pl. 6, f. 9. (Sula fiber. Straggler L.H.) = E. gurlti Tasch.
- **89.** luridum Nitzsch in Denny, *Anoplur. Brit.*, 1842, p. 182, Pl. 10, f. 12. (*Fulica* spp.) [82, 107].
- 90. macgregori Kellogg, New Mallophaga iii, 1899, p. 33, Pl. 3, f. 5, 6. (Crotophaga sulcirostris.)
- 84. macilhennyi Kellogg and Kuwana, Proc. Acad. Nat. Sc. Philad., 1900, p. 155, Pl. 7, f. 3.
  - (**Diomedea nigripes**)  $\Rightarrow$  E. pederiforme Dufour.
- 91. macrocephalum Kellogg, New Mallophaga ii, 1896, p. 504, Pl. 68, f. 3. (Chordeiles virginianus.)
- 92. macrocerum Piaget, Pédiculines, Suppl., 1885, p. 59, Pl. 6, f. 6. (Milvago pezoporus.)
- 85. macroeneme Nitzsch, see Bothriometopus.
- 86. maculatum Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 383. (Ciconia nigra) = E. ciconiae L.
- 87. majus Piaget, Pédiculines, 1880, p. 346 = E. crassicorne Scopoli. (Anas gibberiformis.)

- 88. majus Kellogg, New Mallophaga iii, 1899, p. 30, nec Piaget, 1880. (Fregata aquila.)
- 89. majus Kell. and Chap., New Mallophaga iii, 1899, p. 101, Pl. 7, f. 3, nec Piaget, 1880

#### (Puffinus spp.)

- 90. majus Kell. and Kuw., Proc. Wash. Acad. Sc., iv, 1902, p. 477, nec Piaget, 1880. (Puffinus subalaris.)
- 93. marginale Osborn, *Ohio Nat.*; ii, 1902, p. 176, Pl. 14, f. 4. (*Cathartes aura.*)
- 94. marginellum Piaget, Pédiculines, Suppl., 1885, p. 61, Pl. 7, f. 1. (Bernicla magellanica.)
- 91. maximum Rudow, Zeit. f. ges. Nat., xxxvi, 1870, p. 122 = E. gruis L. (Grus pavonina.)
- 95. megacerus Johnston and Harrison, Proc. Roy. Soc. Queensland, xxiv. 1912, p. 6. (Cygnus atratus.)
- 96. megalops Piaget, Pédiculines, 1880, p. 675, Pl. 56, f. 8. (Cryptonyx coronatus.)
- 92. melanocneme Giebel, Ins. Epiz., 1874, p. 233 = E. obscurum Rudow. (Macronectes giganteus.)
- 97. menura Le Souëf and Bullen, Vict. Nat., xviii, 1902, p. 157, f. 3. (Menura superba.)
- 93. mergi Fabricius, Spec. Ins., ii, 1781, p. 480 = E. mergi-serrati Degeer. (Mergus serrator.)
- 98. mergi-serrati Degeer, Hist. Ins., vii, 1778, p. 78, Pl. 4, f. 13. (Mergus serrator) [93, 143].
- 94. meridionale Rudow, Zeit. f. ges. Nat., xxxvi, 1870, p. 123. Not recognisable. Discard.

#### (Phoebetria fuliginosa.)

- 95. miriceps Kell. and Kuw., Proc. Wash. Acad. Sci., iv, 1902, p. 480, Pl. 30, f. 4. (Diomedea sp.) = E. giganticola Kellogg.
- **99.** modestum Giebel, *Ins. Epiz.*, 1874, p. 210.
  - (Lestris pomarina = Stercorarius pomatorhina) [64, 73].
- 100. monile Nitzsch in Giebel, Zeit. f. ges. Nat., xvii, 1861, p. 519. (Neophron monachus) [55].
- 96. mutabile Piaget, Pédiculines, 1880, p. 324, Pl. 27, f. 1 = E. nigro-limbatum Gb. (Daption capense.)
- 97. nigricans Rudow, Beitrag, 1869, p. 30. Not recognisable. Discard. (Aestrelata mollis.)
- 101. nigrolimbatum Giebel, Ins. Epiz., 1874, p. 233. (Daption capense) [30, 96, 149].
- 102. nun Neumann, Arch. Parasit., xv, 1912, p. 380.

### (Ploceus abysslnicus.)

- 98. nycticoracis Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 309. Nom. nud.
- 99. nyrocae Rudow, Zeit. f. ges. Nat., xxxvi, 1870, p. 128 = E. crassicorne Scop. (Nyroca australis.)
- 103. obscurum Rudow, Zeit. f. ges. Nat., xxxvi, 1870, p. 125. (Macronectes giganteus) [58, 77, 92, 146].
- 100. obtusum Stephens, Syst. Cat., ii, 1829, p. 332. Nom. nud.
- 101. oedicnemi Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 309. Nom. nud.
- 104. opimum Piaget, Pédiculines, Suppl., 1885, p. 78, Pl. 8, f. 6. (Turacus giganteus.)
- 105. oviceps Piaget, Pédiculines, 1880, p. 295, Pl. 24, f. 4. (Host unknown. ? Vulture. L. H.)
- 102. pallidum Piaget, Pédiculines, 1880, p. 312, nec Giebel, 1866. (Ardea albolineata.)
- 103. pallidum Piaget, Pédiculines, 1880, p. 346, nec Giebel, 1866. (Cygnus buccinator.)
- 106. pallipes Piaget, Pédiculines, Suppl., 1885, p. 56, Pl. 6, f. 3. (Platycercus splendens.)
- 107. parumsetosum Piaget, Pédiculines, 1880, p. 676, Pl. 56, f. 7 (Rhynchaea laevigata.)
- 108. parviceps Piaget, *Pédiculines*, 1880, p. 321, Pl. 26, f. 6. (*Sterna hirundo.*)
- **109.** pederiforme Dufour, Ann. Soc. Ent. Fr., iv, 1834, p. 676, Pl. 21, f. 4. (*Diomedea exulans*) [1, 20, 74, 84].
- 110. pelagicum Denny, Anoplur. Brit., 1842, p. 173, Pl. 14, f. 2. (Thalassidroma pelagica) [49, 75, 139].
- 111. perplexum Kellogg and Chapman, New Mallophaga iii, 1899, p. 103, Pl. 7, f. 5. (Pediocaetes, Dendragapus.)
- 112. perspicillatum Nitzsch in Giebel, Zeit. f. ges. Nat., xvii, 1861, p. 521. (Vultur fulvus.)
- 104. phoenicopteri Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 309. Nom. nud.
- 105. phoenicopteri Coinde, Bull. Soc. Nat. Mosc., xxxii, 1859, p. 426. (Phoenicopterus antiquorum) = E. subsignatum Gb.
- 106. piageti Taschenberg, Nova Acta, xliv, 1882, p. 125 = E. longiceps Rudow. (Carpophaga spp.)
- 107. picturatum Kellogg, New Mallophaga i, 1896, p. 121, Pl. 8, f. 1, 2. (Fulica americana) = E. luridum Nitzsch,
- 113. plataleae Linné, Syst. Nat., 1758, p. 613. (Platalea leucorodia) [108].

- 108. platalearum Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 384 = E. plataleae L. (Platalea leucorodia.)
- 114. platyclypeatum Piaget, *Pédiculines*, 1880, p. 678, Pl. 56, f. 5. (*Perdix* sp.)
- 109. pluvialis 'Schrank,' Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 309. Nom. nud.
- 110. podicipis Denny, see Degeeriella.
- 115. polybori Rudow, Beitrag, 1869, p. 30. (Polyborus tharus.)
- 116. porrectum Piaget, *Tijd. v. Ent.*, xxxiii, 1888, p. 239, Pl. 9, f. 3. (*Buceros bicornis.*)
- 117. potens Kell. and Kuw., *Proc. Wash. Acad. Sc.*, iv, 1902, p. 477, Pl. 30, f. 1. (*Sulla* spp.)
- 118. praelongum Piaget, Pédiculines, 1880, p. 312, Pl. 25, f. 7. (Tantalus lacteus.)
- 111. prioni Enderlein, Deutsch. Sud-polar Exp., x, 1909, p. 454. (Prion desolatus) = E. clypeatum Giebel.
- 112. procellariae Fabricius, Syst. Ent., 1775, p. 808. Not recognisable.

  Discard. (Procellaria sp.)
- 113. procellariae Leach MS., in Denny, List. Brit. An., 1852, p. 26.

  Nom. nud.
- 114. procellariae Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 309. Nom. nud.
- 115. pseudoraphidium Taschenberg, Nova Acta, xliv, 1882, p. 128 = E. raphidium Nitzsch.

  (Ibis sp.)
- 116. psittaci Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 309. Nom. nud.
- 117. pullatum Nitzsch, see Pectinopygus.
- 118. punctifer Gervais, Aptères, iii, 1847, p. 353, Pl. 49, f. 1=E. quadripustulatum Nitzseh.

#### (Gypaetus barbatus.)

- 119. punctulatum Rudow, Zeit. f. ges. Nat., xxxvi, 1870, p. 137 = E. crassicorne Scopoli. (Oidemia fusca.)
- 120. purum Nitzsch in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 316.
  Nom. nud. (Anser albifrons.)
- 121. pustulatum Osborn, 1896, error for quadripustulatum, q.v.
- 119. quadriguttatum Giebel, Ins. Epiz., 1874, p. 212. (Rostrhamus hamatus.)
- 122. quadrimaculatum Piaget, Pédiculines, 1880, p. 298, Pl. 24, f. 8 = E. struthionis Gervais.

#### (Struthio camelus, Rhea americana.)

- 120. quadrioculatum Nitzsch in Giebel, Zeit. f. ges. Nat., xvii, 1861, p.522. (Haliaetus albicilla) [47, 140, 148].
- 121. quadripustulatum Nitzsch in Burmeister, Handbuch, ii, 1838, p. 434. (Vultur cinereus &c.) [39, 118, 121].
- 123. quadripustulatum Piaget, Tijd. v. Ent., xxxi, 1888, p. 156, Pl. 3, f. 9, nec Nitzsch, 1838.

# (Hydrornis maxima) = E. quadripustulosum Harrison.

- 122. \*quadripustulosum Nom. nov. for quadripustulatum Piaget, 1888 nec Nitzsch, 1838. (Hydrornis maxima) [123].
- **123.** radiatum Neumann, *Arch. Parasit.*, xv, 1912, p. 378, f. 23. (Host unknown.)
- 124. raphidium Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 384. (Plegadis falcinellus) [115].
- 124. recurvirostrae Gurlt, Arch. f Naturgesch., xxiii, 1857, p. 309. Nom. nud.
- **125.** \***rheae** Nom. nov. for asymmetricum Piaget, 1885, nec Rudow, 1870. (*Rhea* spp.) [14].
- 125. rostratum [Rudow] Giebel, see Ornithobius.
- **126.** rotundatum Piaget, *Tijd. v. Ent.*, xxxi, 1888, p. 159, Pl. 4, f. 2. (*Podica senegalensis.*)
- 126. rubromaculatum Rudow, Zeit. f. ges. Nat., xxxvi, 1870, p. 128 = E. crassicorne Scopoli.

#### (Somateria mollissima.)

- 127. runcinatum Nitzsch, see Degeeriella.
- 128. sagittiforme Rudow, Beitrag, 1869, p. 40. Type immature. Host unknown. Discard.
- 127. saturatius Piaget, Tijd. v. Ent., xxxiii, 1888, p. 246, Pl. 10, f. 1. (Tochus erythrorhynchus.)
- 129. scolopacis Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 309. Nom. nud.
- 128. secretarium Giebel, Ins. Epiz., 1874, p. 213. (Gypogeranus serpentarius.)
- 130. serratum Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 385. (Anser albifrons) = E. anseris L.
- 131. setosum Giebel, see Pelmatocerandra.
- 129. setosum Piaget, Pédiculines, 1880, p. 335, Pl. 27, f. 4. (Phalacrocorax sulcirostris.)
- 132. sexmaculatum 'Schilling,' Gurlt, Arch. f. Naturgesch., xxiii, 1857, p. 309. Nom. nud.
- 133. signatum Piaget; Pédiculines, 1880, p. 310, Pl. 25, f. 7 = E. lepidum Nitzsch. (Anzstomus spp.)

- 134. simillimum Giebel, see Bothriometopus.
- 130. snodgrassi Kellogg, New Mallophaga, ii, 1896, p. 502, Pl. 68, f. 2. (Trochilus rufus.)
- 135. sordidum Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 385 = E. crassicorne Scopoli. (Anas (Nettium) crecca.)
- 136. squalidum Nitzsch in Denny, Anoplur. Brit., 1842, p. 176, Pl. xiv, f. 5. (Anas spp.) = E. crassicorne Scopoli.
- 137. staphylinoides Denny, see Pectinopygus.
- 131. stellare Denny, Anoplur. Brit., 1842, p. 178, Pl. 15, f. 3. (Botaurus stellaris) [51].
- 138. stenopygum Nitzsch, see Acidoproctus.
- 132. strepsicerum Nitzsch, Zeit. f. ges. Nat., xxvii, 1866, p. 118. (Psittacus erithacus.)
- 133. struthionis Gervais, *Aptères*, iii, 1847, p. 354, Pl. 9, f. 2. (*Struthio camelus*) [122].
- 139. subangusticeps Piaget, Pédiculines, 1880, p. 308, Pl. 25, f. 5. (Oceanodroma leucorrhoa) = E. pelagicum Denny.
- 134. subsetosum Piaget, Pédiculines, 1880, p. 336, Pl. 27, f. 5. (Phalacrocorax melanotus.)
- 135. subsignatum Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 384. (Phoenicopterus antiquorum) [105, 145].
- 136. sudanicum Mjöberg, Arkiv f. Zool., vi, 1910, p. 85. (Turtur semitorquatus.)
- 137. sulae Rudow, Zeit. f. ges. Nat., xxxvi, 1870, p. 134. (Sula fiber.)
- 138. sulcifrons Denny, *Anoplur. Brit.*, 1842, p. 169, Pl. 14, f. 1. (*Aquila albicilla.*)
- 140. suturale Rudow, Zeit. f. ges. Nat., xxxvi, 1870, p. 136 = E. quadrioculatum. Nitzsch.

#### (Aquila fulva.)

- 141. tadornae Denny, Anoplur. Brit., 1842, p. 170, Pl. 14, f. 6. (Anas (Tadorna) tadorna) = E. crassicorne Scopoli.
- 139. tantali Fabricius, Ent. Syst., Suppl., 1798, p. 571. (Tantalus leucocephalus.)
- 142. taurum Nitzsch, see Docophoroides.
- 143. temporale Nitzsch in Denny, Anoplur. Brit., 1842, p. 175, Pl. 14, f. 7. (Mergus spp.) = E. mergi-serrati Degeer.
- 140. ternatum Burmeister, Handbuch, ii, 1838, p. 434. (Cathartes papa.)
- 144. testaceum Taschenberg, Nova Acta, xliv, 1882, p. 135, Pl. 5, f. 3.

  (Daption capense &c.) = E. fuliginosum Tb.

- 141. thoracicum Piaget, Pédiculines, 1880, p. 346, Pl. 30, f. 6. (Anas (Tadorna) radjah.)
- **142.** tinami Carriker, *Univ. Nebr. Stud.*, iii, 1903, p. 146, Pl. 3, f. 3. (*Tinamus robustus.*)
- 143. toxocerum Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 386. (Phalacrocorax carbo.)
- 144. trabeculum Piaget, Pédiculines, Suppl., 1885, p. 80, Pl. 8, f. 8. (Pitta novaeguineae.)
- 145. trapezoideum Rudow, Zeit. f. ges. Nat., xxxvi, 1870, p. 131. (Phoenicopterus antiquorum)=E. subsignatum Gb.
- 146. tricolor Piaget, Pédiculines, 1880, p. 363, Pl. 30, f. 4. (Phoebetria fuliginosa) = E. obscurum Rudow.
- 145. tuberculatum Piaget, Pédiculines, Suppl., 1885, p. 61, Pl. 6, f. 8. (Fulmarus glacialis. Straggler. L. H.)
- **146.** turmale Nitzsch in Denny, *Anoplur. Brit.*, 1842, p. 114, Pl. 6, f. 10. (*Otis tarda.*)
- 147. uncinatum Piaget, Pédiculines, 1880, p. 677, Pl. 56, f. 6. (Cryptonyx coronatus.)
- **148.** unguiculatum Piaget, *Tijd. v. Ent.*, xxxiii, 1888, p. 247, Pl. 10, f. 2. (*Notophoyx novaehollandiae.*)
- 147. variegatum Neumann, Arch. Parasit., xv, 1912, p. 381, f. 27, 28. (Ciconia nigra) = E. ciconiae L.
- 148. variopictum Giebel, Ins. Epiz., 1874, p. 211 = E. quadrioculatum Nitzsch.

#### (Aquila fulva.)

- 149. varium Kellogg, New Mallophaga i, 1896, p. 116, Pl. 7, f. 3, 4. (Fulmarus glupischa) = E. nigrolimbatum Gb.
- 150. versicolor Nitzsch in Burmeister, Handbuch, ii, 1838, p. 434.  $(Ciconia \text{ spp.}) = E.\ ciconiae\ L.$
- **149.** zonatum Piaget, *Tijd. v. Ent.*, xxiv, 1881, p. 3, Pl. 1, f. 3. (*Buceros nepalensis.*)

# Genus 51. Pectinopygus Mjöberg.

- bassanae O. Fabricius, Faun. Groen., 1780, p. 218.
   (Sula bassana) [1, 2].
- 1. pullatus Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 387. (Sula bassana) = P. bassanae O. Fabr.
- 2. staphylinoides Denny, Anoplur. Brit., 1842, p. 180, Pl. 15, f. 2.  $(Sula\ bassana) = P$ .  $bassanae\ O$ . Fabr.

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Genus 52. Pelmatocerandra Enderlein.

- eatoni Kellogg, Brooklyn Sci. Bull., ii, 1914, p. 81.
   (Pelecanoides urinatrix) = P. setosa Giebel.
- 1. setosa Giebel, Ann. Mag. Nat. Hist., xvii, 1876, p. 388. (Pelecanoides urinatrix) [1].

#### Genus 53. Philoceanus Kellogg.

1. becki Kellogg, *Biol. Bull.*, v, 1903, p. 88, f. 1, 2. (*Thalassidroma tethys.*)

## Sub-family i. Giebeliinae [Waterston].

Genus 54. Giebelia Kellogg.

- 1. fuscoclypeata Johnston and Harrison, Trans. N. Z. Inst., xliv, 1912, p. 368, f. 4. (Aestrelata neglecta.)
- 2. hexakon Waterston, Ann. S. Afr. Mus., x, 1914, p. 291. (Majaqueus aequinoctialis.)
- 3. mirabilis Kellogg, New Mallophaga i, 1896, p. 138, Pl. 11, f. 7, 8. (Many Petrels.)

#### Genus 55. Trabeculus Rudow.

- 1. aviator Evans, Proc. Roy. Phys. Edin., xviii, 1912, p. 270. Nom. nud. (Puffinus anglorum.)
- 1. dimorphus Waterston, Scott. Nat., 1912, p. 252. (Puffinus anglorum.)
- 2 heteracanthus Waterston, Scott. Nat., 1912, p. 258.
  (Macronectes giganteus) = T. schillingi Rudow.
- 2. schillingi Rudow, Zeit. f. ges. Nat., xxvii, 1866, p. 467. (Aestrelata mollis) [2].

# Sub-family j. Docophoroidinae Harrison.

Genus 56. Docophoroides Giglioli.

- 1. brevis Dufour, Ann. Soc. Ent. Fr., iv, 1834, p. 676, Pl. 21, f. 3. (Diomedea exulans) [1, 2, 3, 4].
- 1. dentatus Giebel, Ann. Mag. Nat. Hist., xvii, 1876, p. 388 = D. brevis Dufour. (Diomedea exulans.)
- 2. murphyi Kellogg, Brooklyn Sci. Bull., ii, 1914, p. 87. (Diomedea melanophrys &c.)
- 3. pacificus Kellogg, Brooklyn Sci. Bull., ii, 1914, p. 87. (Diomedea albatrus.)

- 4. simplex Waterston, Ann. S. Afr. Mus., x, 1914, p. 303. (Diomedea melanophrys.)
- 2. taurus Nitzsch in Giebel, Zeit. f. ges. Nat., xxviii, 1866, p. 385. (Diomedea exulans) = D. brevis Dufour.
- 3. thoracicus Nitzsch in Giebel, Zeit. f. ges. Nat., xviii, 1861, p. 316. (Diomedea exulans.)
- 4. tonsus Rudow, Beitrag, 1869, p. 13. (Dlomedea sp.)

#### V1.

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#### NOTE

The object of Mr Harrison's paper is primarily to place in the hands of students of the Mallophaga a complete list of the systematic nomenclature of the group. No attempt has been made to bring the host list up to date, and in most cases the original author of the record of the parasite has been quoted without remark. All host names therefore require careful collation by the student with some standard work, e.g. The Catalogue of the Birds in the British Museum (1874—1898).

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ED.



